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AUGUST 14, 1948

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Index to Advertisers pp. 5 & 6

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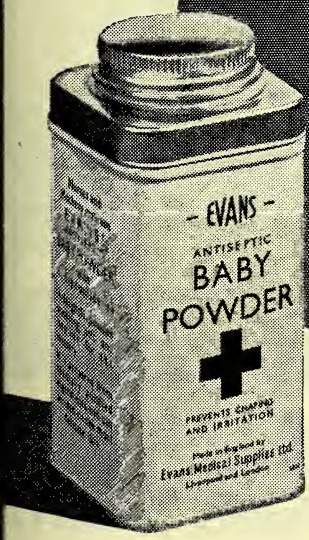

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INDEX TO ADVERTISERS

on Pill & Tablet Co., d. xxviii
lo-French Drug Co.. Ltd. 23
o, Ltd. xxxi
nsons 21

ies, M. H. .....Col. Supp.
g, J., & Sons, Ltd. xxiii
ey's Food Co., Ltd. xxxiv
sdale, Ltd. .....Leader Page
on, Astley & Co., Ltd. 22
Martin, Ltd. xxii
sh Cod Liver Oils (Hull Grimsby), Ltd. xxxv
sh Drug Houses, Ltd., ne i
sh Dyewood Co., Ltd. ... vi
sh Felsol Co., Ltd. ...Cover iv
sh Permanent Starch Co., d. xxiv
sh Schering, Ltd. 5
nchovydrin (1945), Ltd. ... xxiv
ntan, Ltd. xxvii
nmer, J. iv
ough, James, Ltd. Leader Page
oughs Wellcome & Co. ... 35
n, Beach & Gent, Ltd. ii

Ma-Vite Laboratories Col. Supp.
non Rubber Manufacrers, Ltd. 32
negie Chemicals (Welwyn), d. 20

Carr's Flour Mills, Ltd. 10
Carter, H. W., & Co., Ltd. 12
Carter's Little Liver Pills ...xxviii
Cartwright, W. B., Ltd. 6
Carus, A., & Sons, Ltd. 36
Castle Huskisson, Ltd. ii
Caton & Son .....Leader Page
Cephos, Ltd. 4
Clarity (Photographic) Co. ... ix
Clinical Products, Ltd. xiii
Coates & Cooper, Ltd. x
Cooper Laboratory, Ltd. 22
Cooper, Son & Co., Ltd. 28
Cox, Arthur H., & Co., Ltd. 8
Cuticura Preparations xxxiii
Cyanamid Products, Ltd. ... 15

D.D.D. Co., Ltd. xxxiv
Daniel, Richard, & Son, Ltd. 13
Demuth, R., Ltd. 10
Denver Chemical Mfg., Co. ... 10
Draper, C., Ltd. 24
Dunlopillo xxiii
Durex Abrasives, Ltd. xvi

Edosan, Ltd. iv
En Ess Towels x
Evans, Adlard & Co., Ltd. ... xii
Evans, Gadd & Co., Ltd. v
Evans Medical Supplies, Ltd. 3

Faylene Manufacturing Co. ... viii
Feen-a-Mint xxx
Fennings, A. xxx
Fink, F., & Co. iv

Franks, A., & Bartlett Co., Ltd. iv
Freudentheil, Smith & Co. Ltd. .....Leader Page

Gale, Baiss & Co., Ltd. iv
Gardner, W., & Sons (Glos), Ltd. vi
Gillette Industries, Ltd. xxi
Glaxo Laboratories, Ltd. 1
Goya 34
Graesser Salicylates, Ltd. ... viii
Greeff, R. W., & Co., Ltd. 9

Halex, Ltd. xiv
Hall, Forster & Co., Ltd. ... viii
Hampshire, F. W., & Co., Ltd. 16
Harris, Hart & Co., Ltd. ... viii
Harrison, A., & Sons, Ltd. ... 4
Harwoods Laboratories, Ltd. xxxvi
Herts Pharmaceuticals, Ltd.... 24
Heward, R. H., Co. x

Ilex Supply Co., Ltd. 22
Ingram, J. G., & Son, Ltd.... xii
Institute of Chemists-Opticians Col. Supp.
Jeffreys, Miller & Co., Ltd. ... 22

Kellys, J., (London), Ltd. ... vi
Kemball, Bishop & Co., Ltd. 19
Kerfoot, T., & Co., Ltd. ... 36

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INDEX (cont.)

Knox Laboratories, Ltd. 26
Knox, John (Stoke-on-Trent) Ltd. 29

Lambeth & Co. (Liverpool), Ltd. .....Leader Page
Lang, Jules, & Son xxviii
Leda Chemicals, Ltd. xxviii
Lodge, Robin iv
London Commercial Electric Stores 14
Loveluck Edwards & Co. Leader Page
Lusty's Natural Products Co. xxx

Macleans, Ltd. 7
Manesty Machines, Ltd. 31
Markwell Edwards & Co., Ltd. xxx
Marns, T., Ltd. xxxii
Martin, Bob, Ltd. xxii
Matthews & Wilson, Ltd. 28
Medico-Biological Laboratories, Ltd. 30
Middleton & Co., Ltd. xiv
Midgley & Parkinson, Ltd. ... 22
Monsanto Chemicals, Ltd. .. Cover ii

National Glass Works (York), Ltd. v
National Savings xxvi
Northern Polytechnic Leader Page

Optabs, Ltd. xv
Organon Laboratories, Ltd. ... 27

Orridge & Co. .....Col. Supp.
Oxo, Ltd. 34

Pearson, E. T., & Co., Ltd. 23
Percenta, Ltd. xxxii
Pharmaceutical Laboratories, Geigy, Ltd. ix
Pharmaceutical Specialities (May & Baker), Ltd. Front Cover
Phillips, Chas. H., Chemical Co., Ltd. 25
Phosferine (Ashton & Parsons), Ltd. 14
Picker, Myriam, Ltd. 29
Pierson Morrell & Co., Ltd. vii
Potter & Clarke, Ltd. 33

Rankin Bros., & Sons Leader Page
Reliance Trading Co., Ltd. ii
Richter, Gedeon (Great Britain), Ltd. 32
Roche Products, Ltd. 11
Ronaldson, J., & Co., Ltd. Leader Page
Rose, J. L., Ltd. vi

Sale, Tilney (Marketing), Ltd. 26
Scholl Manufacturing Co., Ltd. xxix
Scott & Turner, Ltd. xxvi
Selka, Ltd. .....Cover iii
Sellotape vi
Sharp & Dohme, Ltd. 2
Singer, Ernest M. viii
Smith, T. & H., Ltd. iii

Smith, T. J., & Nephew, Ltd.
"Solazzi" .....
Stanning Proprietaries, Ltd. x
Steele, F. H. & Co., Ltd. ...
Stewart, Goodall & Dunlop, Ltd. .....
Sturge, John & E., Ltd. .....

Tampax, Ltd. .....xiv,
Teasdale & Co., Ltd. .....
Town Talk Polish Co. .....
Trade Mark Protection Society .....Leader P
Tryst .....
Tyrer, T., & Co., Ltd. .....

United Glass Bottle Manufacturers, Ltd. .....

Velouty de Dixor .....
Vicsons, Ltd. .....
Vitamins, Ltd. .....

Waide, Thos., & Sons, Ltd....
Ward, Blenkinsop & Co., Ltd.
Watford Chemical Co., Ltd.
Westminster Laboratories, Ltd. .....
Whiffen & Sons, Ltd. .....
Whitakers (Kendal), Ltd. .....
Wilson & Mansfield, Ltd. .....
Wood Bros. Glass Co., Ltd.
Woodward, G. O., & Co., Ltd. .....

Zeal, G. H., Ltd. .....Cove
Zems, Ltd. .....

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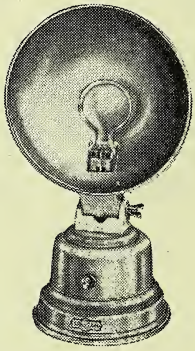

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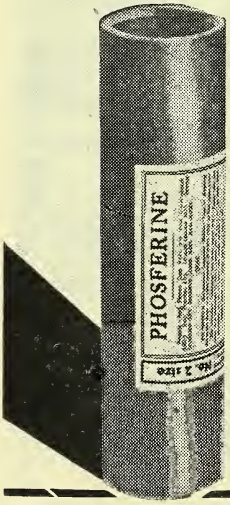

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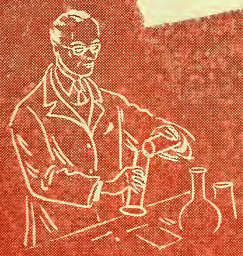

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oth of these things.
lade from Atkinsons newest formula for the
ay and night care of the skin, SKIN DEEP holds make-up perfectly by day and acts as a rich skin food by night. As the years go by the natural substances which keep the skin pliable and able to resist wrinkling dry up. SKIN DEEP, blended from oils closely resembling the skin's natural oils, preserves the complexion against wind, weather and loss of elasticity caused by the march of time.

ATKINSONS

Skin Deep

BEAUTY CREAM

FOR DAY AND NIGHT USE

All Skin Deep

advertisements appearing in the big-circulation magazines and journals feature the phrase "does the skin good." And it's true.

4-1062 ATKINSONS OF OLD BOND STREET, W.1

C

✚ Stops

SCURF

Dr. Page-Barker's

Scurf & Dandruff Lotion

A Guarantee with every Bottle.

Distributors to the Chemists' Trade—

THOS. CHRISTY & CO. LTD.

FARNHAM, SURREY.

Trade 20/- doz.
Plus Tax ONE THIRD
Retail 3/4 P.A.T.A.

Sole Manufacturers and Proprietors—

ILEX SUPPLY CO., LTD. 252b GRAY'S INN ROAD, W.C.1

GROUND

DRIED YEAST

MIDGLEY & PARKINSON, LTD.

WARREN WORKS, PUDSEY, LEEDS

BLYTON ASTLEY & CO., LTD.

Eagle Laboratories

LOWER BROUGHTON, MANCHESTER

thank their customers for their patience and fo bearance during these difficult times, and assu them that every effort is being made to supp quickly lines which they have previously purchase

MILLAMALT

The VITAMI MALT FOOD

Sole Manufacturers With Vitamins (A. 6,500 I.U., D. 400 I. per fl. oz.

JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN, London Dept.: 19 Brookside Ro

The House for

TABLETS & PILLS

We manufacture a complete range and supply packed or in bulk... Also we make to private formulæ.

PROPRIETARY REMEDIES PREPARED & PACKED

BULK TABLETS

including

N.F. and N.W.F. lines

supplied in convenient quantities from 100 upwards

The COOPER Laboratory Ltd

THE SPECIALIST HOUSE

WATFORD

SPECIAL NOTICE

TESSOL

FOR STOMACH PAINS

CAN BE SUPPLIED

Although, due to transport restrictions, this most valuable remedy and prophylactic has not been marketed in the U.K., a demand has spread back from India and the East. Its low flashpoint compels transport by rail, but the manufacturers

E. T. PEARSON & CO. LTD.

425 LONDON ROAD, MITCHAM, SURREY

can meet all enquiries, for any quantity, carriage paid

TRADE PRICE PER DOZEN 53/- less 25%, PLUS P. TAX 13/3 TO RETAIL AT 5/6 PER BOTTLE

PLEASE RECORD FOR FUTURE USE

THE ANGLO-FRENCH DRUG Co. Ltd.

announce the following NEW PRICES which became operative on JULY 1st, 1948

	Retail Price (inc. P.T.)	Retail Price (ex. P.T.)	Trade Prices (ex. P.T.)
ELIXIR GABAIL Bottle of 187 c.c. - - - -	5/9	4/8½	Basic Retail Price less a discount of 33⅓%
ELIXIR GABAIL Bottle of 16 oz. - - - -	11/0	9/0	
HYPOTENSYL Bottle of 50 Tablets - - - -	5/0½	4/1½	
IODOBESIN Bottle of 60 Tablets - - - -	6/10½	5/7½	
MYCOLACTINE Bottle of 50 Tablets - - - -	3/5½	2/10	
SYRUP PERTUSSIS Bottle of 125 c.c. - - - -	4/1½	3/4½	
(Gabail) Bottle of 16 oz.	11/0	9/0	

Further particulars from:

11-12, GUILFORD STREET, LONDON, W.C.1

Cardophylin

TRADE MARK

(THEOPHYLLINE-ETHYLENEDIAMINE)

VASODILATOR · RESPIRATORY STIMULANT · DIURETIC

Cardophylin is a drug of outstanding value in the treatment of diseases of the Cardiovascular system, respiratory disturbances and œdema.

Supplied in :—

TABLETS for oral use, each tablet containing 0.1 g. In tubes of 20 and bottles of 100 and 250.

AMPOULES for intravenous injection, each containing 0.24 g. in 10 c.c. In boxes of 5 ampoules.

AMPOULES for ntramuscular injection, each containing 0.48 g. in 2 c.c. In boxes of 6 ampoules.

SUPPOSITORIES, each containing 0.36 g. In boxes of 10 Suppositories.

OBTAINABLE FROM YOUR USUAL WHOLESALE SUPPLIERS

Manufactured by

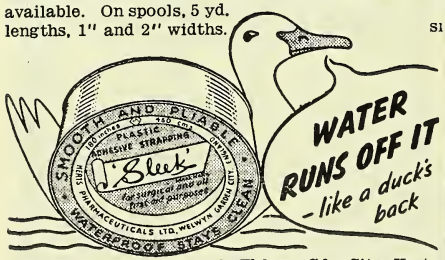
WHIFFEN & SONS LTD · CARNWATH RD · FULHAM · LONDON · S·W·6

'Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING

'Sleek', the up-to-the-minute zinc oxide strapping, is the latest development in the surgical plaster field. Its smooth, plastic surface resists water, oil and antiseptics, and discourages dirt and stains. 'Sleek' cannot fray or catch in clothing. Flesh-coloured, inconspicuous. Plentiful supplies now available. On spools, 5 yd. lengths, 1" and 2" widths. S1



Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.

Cradle Cap

★ *Quickly Cleared b*

HIoLITE

HIoLITE clears 'Cradle Cap' in two or th applications. It is a boon to mothers. HIoL formulated on sound Dermatological principles, v it's soothing action gently and thoroughly clear the scalp and hair protecting against further infecti Recommend HIoLITE and sales will boom. Supp now available. Retails at 1/4½. per bot

Distributed by

NEWBERY & PHILLIPS L

VICTORIA HOUSE SOUTHAMPTON ROW LONDON W

Manufactured by C. DRAPER & CO., LTD. Twyford, B

Now in Better Supply!

Pharmacists will welcome the information that a marked improvement in production now permits the removal of restrictions on supplies. Orders may now be placed without limitation on quantity, thus enabling chemists to meet the continually increasing demand for this popular antacid.

'Milk of Magnesia'

Regd.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3.

Mirror, Mirror, tell me true . .
am I selling the Right Shampoo ?

If you stock

Pink Ribbon

—yes

The Mirror says Yes to PINK RIBBON — It couldn't do otherwise.
Large-scale National Advertising is increasing demand and pushing up Sales and Profits everywhere.

Distributors for England, Wales and Northern Ireland
SALE, TILNEY (MARKETING), LTD.
3 LLOYDS AVENUE, LONDON, E.C.
Scotland : The Southern Manufacturing Co. Ltd., 214-216 We Regent Street, Glasgow, C.1.

New Era

The Knox Policy

The Policy of the Knox Laboratories Ltd., has always been one of creating product confidence by giving users an assurance of satisfaction

Today, in their Nation-wide advertising, all announcements carry this guarantee of honest trading and straightforward dealing

MAKE THIS TEST

To prove that Cystex may be the very medicine you need to put you on the road to better health than you have had for a long time, get Cystex from your chemist today, price 1/7. This will enable you to see how quickly Cystex gives relief and benefit to health.

Cystex
THE KIDNEY TONIC
For KIDNEYS, BACKACHE RHEUMATISM

SUPPLIES THROUGH YOUR USUAL WHOLESALER
All orders executed promptly in full.

Mendaco
For ASTHMA BRONCHITIS. HAY FEVER

KNOX LABORATORIES LTD., 29 Duke St., St. James's London, S.W.1
'Phone : Regent 4562

ORGANON

Complete Range of Standardised Hormone Products

ŒSTROGENIC

Œstrone . . . . . Menformon
Œstradiol Benzoate . . . . . Dimenformon
Œstradiol Dipropionate . . Dimenformon Dipropionate

ANDROGENIC

Testosterone and its propionate . . Neo-Hombreol
Methyl Testosterone . . . . . Neo-Hombreol (M)

PROGESTOGENIC

Progesterone . . . . . Progestin
Ethisterone . . . . . Progestoral

ADRENAL CORTEX HORMONE

Deoxycorticosterone acetate . . . . . Doca

GONADOTROPHINS

Chorionic Gonadotrophin . . . . . Pregnyl
Serum Gonadotrophin . . . . . Gestyl

THYRO-GONADOTROPHIN

Extract of Anterior Pituitary . . . . . Ambinon

CORTICOTROPHIN

Adrenocorticotrophic . . . . . Cortrophin

Available in all appropriate pharmaceutical forms and strengths

Full list of packings and prices on request.

ORGANON LABORATORIES LTD.

BRETTENHAM HOUSE, LONDON, W.C.2

TEMple Bar 6785 (4 lines) MENFORMON, RAND, LONDON

AGENTS THROUGHOUT THE BRITISH EMPIRE AND MOST OVERSEAS TERRITORIES

JOHN KNOX · JOHN KNOX · JOHN KNOX

Everything for the Chemist and only for the Chemist!

Immediate attention to all orders. Post orders despatched same day. Weekly Van Service throughout the Midlands. John Knox Service is yours to command!

John Knox

(Stoke-on-Trent), Ltd.

Jaynox Works, King Street, Fenton, Stoke-on-Trent.

P.A.T.A.

John Knox (Midland) Ltd. 36/38 Dean St. Birmingham, 5

JOHN KNOX · JOHN KNOX · JOHN KNOX

JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX

BACKED BY NATIONAL ADVERTISING THERE IS AN INCREASING DEMAND FOR

NUCTA OIL

THE SOAPLESS OIL SHAMPOO

The Treatment Shampoo for Dry Scalp and Dandruff. Can be Recommended with Confidence

In 8 oz. bottles selling at . . 3/10
25/- per doz. plus tax
(Carriage paid on net order of £2)

ORDER FROM YOUR USUAL WHOLESALER OR DIRECT FROM THE MANUFACTURERS

STEWART, GOODALL & DUNLOP LTD
121A PRINCES ST., EDINBURGH

CACHETS "FINOT"

17 Sizes to fit various types of machines

Adapted for Headache, Neuralgia and other powders

COOPER SON & Co., Ltd
120 Gloucester Road, LONDON, S.W.7

LABORATORY EQUIPMENT

Scientific Glassware, Etc.

We can supply ex-stock, Balances, Metal-ware, "Pyrex," etc
Lists are now available and will be sent on reques
VICSONS LTD., PINNER RD., HARROW, MIDDX

G. O. WOODWARD & COMPANY LTD.

Specialists in the manufacture of COMPRESSED MEDICINAL TABLETS
PROMPT DELIVERY, MODERN PLANT. HOME & EXPORT Enquiries invited.
Tel.: MACAULAY 4375. 146 Larkhall Lane, Clapham, London, S.W.4

Free Sales helps for
'SUDEX' SENNA PODS

Supplied in 1-oz. sealed Cartons, display outers. Showcard available.
Immediate delivery.

The SUDEX SENNA COMPANY
(Props. Matthews & Wilson Ltd.)
6 & 8 COLE STREET, LONDON, S.E.1

Nipits

THE MEDICATED PASTILLES

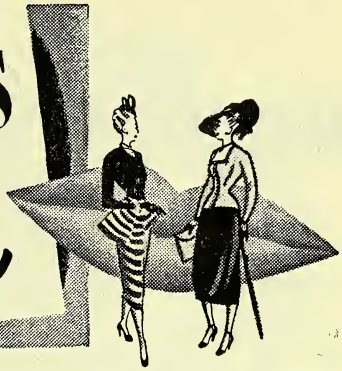
FOR VOICE, THROAT & CHEST

TEASDALE & CO. LTD. CARLISLE

HOW

GALA of LONDON'S Colour Policy

BUILDS BUSINESS FOR YOU



No 1 *Lipstick matched to clothes*

Point No. 1 in GALA OF LONDON'S colour policy is telling your customers—'MATCH YOUR LIPSTICK TO YOUR CLOTHES'.

Hair or skin are no longer the guides to lipstick colour. Gala is actively promoting the verdict of fashion stylists that harmony of lip colour with clothes is essential. Whatever colour clothes a woman wears she should wear the shade of lip colour that matches or complements it.

GALA puts fashion to work for you GALA OF LONDON allows women to match their clothes freely, with a brilliant range of 12 lipstick shades, which between them match all fashion colours and enable women to collect a *wardrobe of lipsticks* to go with their clothes.

Women can no longer use only one lipstick. They must have several to go with the different colours they wear. That creates new sales opportunities for you. Sales are stimulated as women collect the new range of lipsticks they need. And GALA OF LONDON makes this possible with the widest range of fashionable shades offered by any house at reasonable prices.

Advertising GALA of LONDON does more than produce 12 lipstick shades. It advertises each of them in turn, dramatising each shade in brilliant colour, describing the lip colour and advising the shades of clothes with which it should be worn.

The Pack Each of these dramatised advertisements is reproduced in full colour, in miniature, on the carton of each lipstick shade, which makes GALA Lipsticks the most effectively merchandised range in the cosmetic field. It makes shade selection by women simple, and stockkeeping by the retailer easy. In this way all 12 shades of GALA Lipsticks are good sellers—there are no "also rans". Each shade is necessary to complete the colour range and does not become dead stock.

Display Material GALA OF LONDON goes further and offers the retailer dramatic show material that links up directly with the Lipstick advertising. In addition to individual shade showcards, there is a stand that holds a dummy carton of all shades and thus saves retailers' stock. Most important, there is a testing stand that holds miniature lipsticks of each shade and lets women try them all. This solves the retailers' most difficult lipstick selling problem—that of letting women see — and sometimes try — shades, which usually results in spoiling stocks.

There is *no waste or loss* with GALA Lipstick —only profit!

GALA of LONDON's colour policy is an active sales policy, from which all selected GALA stockists benefit.

(No. 2, 3 and 4 of GALA'S colour policy will be described in future advertisements.)

GALA'S LIPSTICK TESTING STAND
A real sales aid that also solves other problems for you!

The Fashion Leader in Colour in Make-up

Gala OF LONDON

Burlington Arcade, Piccadilly, London, W.1

Distributors: MYRAM PICKER LIMITED · HOOK RISE · SURBITON · SURREY

BIOLOGICAL MBL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATIONS

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS.

		Retail Prices (inclusive of Tax)	CHEMISTS' PRICE Per unit Net	+ Purchase Tax	Per dozen Net	+ Purchase Tax
ANTIPEOL						
OINTMENT	4 oz. tube	7/5	4/2½	+ 1/5	50/5	+ 16/10
	40 gr. „	3/8½	2/1½	+ 8½	25/3	+ 8/5
	20 gr. „	2/1	1/2	+ 5	14/-	+ 4/8
LIQUID	40 c.c. bottle	3/8½	2/1½	+ 8½	25/3	+ 8/5
OPHTHALMO-ANTIPEOL						
20 gr. Nozzled Tube		3/8½	2/1½	+ 8½	25/3	+ 8/5
8 gr. „ „		1/9	1/-	+ 4	11/11	+ 4/-
RHINO-ANTIPEOL						
20 gr. Nozzled Tube		3/1	1/9	+ 7	21/-	+ 7/-
8 gr. „ „		1/9	1/-	+ 4	11/11	+ 4/-
ENTEROFAGOS						
Box of 50 ampoules		19/-	13/3½	None	159/7	None
„ 10 „		4/3	3/-	None	35/8	None
„ 5 „		2/6	1/9	None	21/-	None
DETENSYL						
Tin of 500 tablets...		43/-	24/-	+ 8/-	288/-	+ 96/-
Tube of 50 „		4/11	2/8½	+ 11	32/4	+ 10/10
ST. JAMES' BALM						
Tin of approx. 2½ oz.		3/1½	1/11	+ 7½	22/6	+ 7/6
„ „ 1 oz.		1/7	11	+ 4	11/3	+ 3/9

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, Monthly Account.

MEDICO - BIOLOGICAL LABORATORIES LTD., LONDON, S.E.2

MANESTY
BRITISH MADE

AUTOMATIC
WATER STILLS

- CONTINUOUS IN OPERATION
- HIGH QUALITY DISTILLED WATER
- LOW COST OF OPERATION
- EASILY CLEANED

OUTPUT
50 gallons
per hour

FROM

No. 4
STEAM
HEATED
STILL

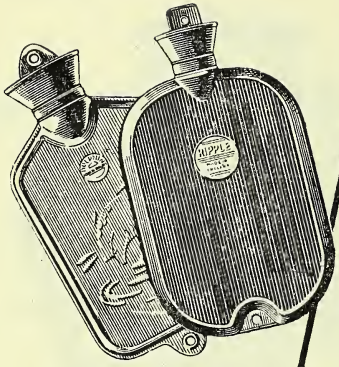
ESTIL

OUTPUT
2 pints per hour

ELEVEN MODELS AVAILABLE
HEATING by
GAS, ELECTRICITY, STEAM AND PARAFFIN

FULL DETAILS GLADLY SUPPLIED

MANESTY MACHINES LTD.
5 SPEKE HALL ROAD, LIVERPOOL 19
elephone : HUNTS CROSS 1321. *Telegrams* : MANESTY, LIVERPOOL



All Cannon Rubber products are of the highest quality available today. Both at home and overseas these products have become popular because they are manufactured to most exacting standards. Wherever the CANNON trade mark appears, there you will find the best that is to be had. From your regular wholesaler.

Quality Goods by

CANNON RUBBER

Makers of 'Modern' and 'Wellborn' Teats, The 'Dolphin' and 'Ripple' Hot Water Bottles, 'Diver' and 'Rosette' Bathing Caps.

THE CANNON RUBBER MANUFACTURERS LIMITED · LONDON · N.17

Obtainable from your usual wholesaler or direct.

Made in Ivory and Natural Shades only.

VELOUTY de DIXOR

DIXOR LTD., ST. LEONARDS WKS., MORTLAKE, S.W.14.

WILL PHARMACISTS KINDLY NOTE THAT THE FOLLOWING PREPARATIONS ARE AVAILABLE ON PRESCRIPTION, READY PACKED IN **6 oz.** BOTTLES

	INCL. TAX
MIST. BRONCHIALIS ...	2/-
ELIX. BROVAL	2/-
CARMINAT	2/-
NEURATONE	2/-
SYROFANS	2/-
TUSSIBROM	2/-
TRIBROM FORTE ...	2/-
PARIVITAN	3/1
PARATEX...	2/6

SUBJECT TO 33⅓

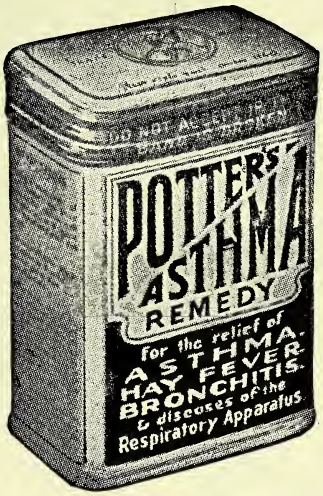
Physicians have been advised.

GEDEON RICHTER (G.B.) LTD

Telephone : GUL 3478

POTTER'S

ASTHMA REMEDY



Revised "Budget" Prices
Price 2/5 per Tin (inc. tax)
Wholesale 18/- per Doz., plus 6/- per Doz. Tax
Packed in half dozens

Well advertised and world famous
A sound selling line for every Chemist

POTTER & CLARKE LTD

60-64 Artillery Lane, LONDON, E.1.
Telephone: BIShopsgate 4761
and
77 Dantzic Street, MANCHESTER 4.
Telephone: BLAckfriars 8734

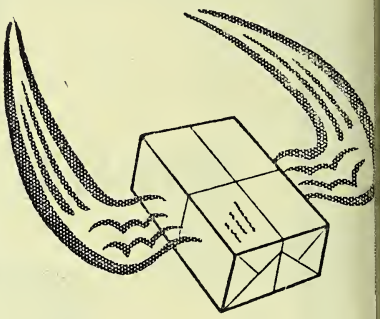
Colour queries

Do your customers ask to see the latest GOYA lipstick colours? If so, you will be pleased to know that GOYA has produced a new showcard/colour card for his Grandee lipstick. As well as being attractively gay for display purposes, it gives your customers an immediate, correct and vivid impression of the seven beautiful shades of GOYA lipsticks.

The Grandee show-card is made with a glossy washable finish and measures 11"x9". If you would like one, write to GOYA's Sales Department, who will be delighted to send it to you.

Goya

161 NEW BOND STREET LONDON W1



OXOID laboratory preparations are despatched with unfailing promptness, and reach you with gratifying speed.

This is a service you can rely on; every order is an emergency order.

Write, telephone or wire your instructions.

OXO LIMITED

MEDICAL DEPARTMENT

THAMES HOUSE, QUEEN ST. PLACE, LONDON, EC4

TELEPHONE CENTRAL 9781

The Stars foretell BRISK BUSINESS!

CROWNER CARDS

NEW OUTERS

NEW SHOW-CARDS

BIG BONUS

NEW PACK

'TABLOID' ASPIRIN

BURROUGHS WELLCOME & CO. LONDON

Safe. Rapid. Effective

The 'Tabloid' Aspirin bonus gives you ***fourteen*** to the dozen on six-dozen assorted parcels; or ***thirteen*** to the dozen on three-dozen assorted parcels. In addition, to assist your sales, a striking new range of show material is now being issued. Retail prices of 'Tabloid' Aspirin, gr. 5, bottles of 25, 1/- plus 3d. tax; gr. 5, bottles of 100, 2/10d. plus 8½d. tax

'Tabloid' BRAND Aspirin

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON

For GOOD TABLETS

THOMAS KERFOOT & CO. LTD., VALE OF BARDSLEY, LANCASHIRE

CARUS PRODUCT

SURGICAL DRESSINGS

by

CARUS

OF DARWEN

HODDLESDEN MILL · ATLANTIC MILL · HAMPDEN MILL · SPOTLAND BRIDGE MILL

The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

AUGUST 14, 1948

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London,"

le copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3573 Volume CL

CONTENTS

"Approved Names" for Drugs ... 206
Books, New ... 206
British-made Streptomycin ... 221
Business Changes ... 203
Cod-Liver Oil Production ... 223
Coming Events ... 223
Company News ... 203
Correspondence ... 222
Council's Statement on N.H.S. ... 210
Deaths ... 200
Editorial Articles:—
N.H.S. Dispensing in Operation—2 215
Handkerchief Dangers ... 216
A Task for Scholarship ... 217
Production of Insulin ... 217
First Month of N.H.S. Dispensing—2 212
I.G. Farben Organisation ... 223
Inquests... ... 202
Insects and Insecticides—1 ... 218
Legal Reports ... 203
Local News ... 198
Marriages ... 200
Medical Abstracts ... 222
Miscellaneous Inquiries ... 228
Overseas News ... 199
Personalities ... 202
Revison of Society's Constitution ... 208
Shanghai's Pharmaceutical Industry 203
Storing Solutions ... 209
Topical Reflections ... 201
Trade Marks ... 228
Trade Notes ... 204
Trade Report ... 224
Wills ... 200

NEWS OF THE WEEK

Hot-water Bottle Prices Decontrolled. The price control on rubber hot-water ttles has been revoked by an Order (S.I., 48, No. 1803) which came into opera- n on August 9. The effect of the der is to cancel the Rubber Hot-water ttles (Maximum Prices) Order, 1945, as ended, and to remove rubber hot-water ttles from the list of items affected by Prices of Goods (Price-regulated ods) Order, 1942.

German Detergents. — Notes on some ergents made by the I.G. organisation Germany have been prepared as a I.O.S. report. Formulas of a number of shing agents including Igepals W, F, C d B are given, together with a number washing tests used in assessing the value the compounds. Copies of the report I.O.S. Final Report No. 1778, Item No.) may be obtained from H.M. Stationery fice, Kingsway, London, W.C.2, price 6d.

News Service for Exporters. — The ard of Trade Export Promotion De- rtment recently reintroduced a special register service of information. Since May some 300 circulars have been provided for subscribers covering aspects of trade with about fifty different overseas markets. One of the latest circulars (COM/303/I.D.5) gives a review of Chinese chemical factories in Shanghai (see p. 203). The cost of the service is 30s. per annum. Enrolment forms are obtainable from the Export Promotion Department or from regional offices of the Board of Trade.

Streptomycin Regulations.—The Streptomycin Regulations, 1948 (S.I., 1948, No. 1735), which came into operation on August 1, bring streptomycin within the scope of the Penicillin Act, 1947. Streptomycin is defined in the regulations as "any antimicrobial complex organic base or mixture of such bases produced by *Streptomyces griseus* or other living organisms which (a) yields on hydrolysis by mineral acids the base streptidine (*ms*-2:4:5:6-tetrahydroxy-1 : 3-diguanidocyclohexane); and (b) yields on hydrolysis by a 4 per cent. solution of sodium hydroxide the substance maltol (3-hydroxy-2-methyl-

gamma-pyrone); and includes any salt or derivative, or salt of a derivative, of any such base, any mixture of any of the substances aforesaid, and any substance the chemical and biological properties of which are identical with or similar to those of any of the substances aforesaid but which is not produced by living organisms." [A prescription for a substance covered by the Act may not be dispensed more than once, or more than three months from the date on which it was signed, unless it expressly directs that it may be dispensed on a specified number of occasions, or at specified intervals in a specified period.]

Swedish Chemicals for Britain.—Chemicals are included among products to be exported in greater quantities from Sweden to Britain as a result of recent discussions between the two countries "against the background of Sweden's sterling position."

Dyestuffs Export Licences.—Dyestuffs and certain materials used in their manufacture require an export licence under a new Board of Trade Order which came into operation on August 4. Applications for licences should be sent to the Board of Trade, Dyestuffs Control, Guardian Chambers, 28 Blackfriars Street, Manchester, 3.

Mission to Czechoslovakia.—A goodwill mission representing the Association of British Chemical Manufacturers is to visit Czechoslovakia for ten days in September at the invitation of the Czech chemical industry. The mission, which is to be led by Messrs. R. Duncalfe (British Glues & Chemicals, Ltd.) and J. Davidson Pratt (director of the Association), with Dr. George Lewi as liaison officer, follows the visit of a Czech chemical mission to Great Britain in 1947.

T.S.A. Penicillin Licences. — Licences under the Therapeutic Substances Act, 1925, for dispensing pencillin injections, have recently been granted to the following:

BEXHILL-ON-SEA:
T. F. Jones, Four Sea Road Pharmacy.

EASTBOURNE:
Walter Price (Chemist), Ltd., 30 Grove Road.

ONGAR:
J. W. M. Baugh, The Pharmacy.

REDHILL:
H. Hocken, Ltd., 33 Station Road.

TORQUAY:
T. D. Evans (Cocks & Duntford), 2 Tor Hill Road, Castle Circus.

WEMBLEY:
E. Ratcliffe, 14 Ealing Road.

New Type of Fowl Pest.—Blood te of poultry used in laying trials have sho the presence of a new type of Newcas disease (fowl pest) less virulent than t European type. It is similar in form, sa the Ministry of Agriculture, to the Unit States type and has probably been ende in this country for three years witho showing a virulent character.

Examination Results.—The followi candidates were successful in the Pharm ceutical Chemist Qualifying examinati held in Scotland in July:—

Adderson, James Eric, Leicester
Black, William, Inverurie
Carey, Andrew, Glasgow
Carr, Thelma Muriel, Newcastle-on-Ty
Cheetham, Mary Wilson, Rainhill, nr. Liverp
Darwin, Kenneth Vincent, Bradford
Douglas, Alec Jeffrey, Leeds
Ewart, James Bisset, Edinburgh
Hark, Milton Robert, Bolton
Heaton, Herbert Philip, Halifax
Henderson, James Ray, Glasgow
Hickson, Alan, Washington, co. Durh
Jewitt, William Kenneth, Darlington
Knight, Kenneth Jack, Leicester
Laurie, John Thomson, Glasgow
Litchfield, Thomas William, Sunderlan
McCann, Mary Monica, Edinburgh
Macpherson, Sidney Melrose, Warringt
Nicol, John, Aberdeen
Patterson, Alexander W., Edinburgh
Peake, Hilda Florence, Buxton
Riley, Geoffrey Barber, Manchester
Roberts, Kenneth, Leeds
Sadler, Adrian Philip, Manchester
Thomas, James Fleming, Bellshill
Wilson, William Donald, Leeds

LOCAL NEWS

Burglary. — Cosmetics and cash w stolen from the premises of Sturton & So Ltd., chemists, Bridge Street, Peterborou when an entrance was forced into the sh recently.

Carlisle Pharmaceutical Committee. Mr. J. Sharp, Ph.C., 26 Scotch Stre Carlisle, has been appointed *Chairman* a *Secretary* of Carlisle Pharmaceutical Co mittee.

Surrey Pharmaceutical Committee. Officers:—*Chairman,* Mr. W. S. Howe *Vice-chairman,* Mr. C. B. Harrison; *Tr surer,* Mr. H. G. Tibbett; *Secretary,* M F. C. Wilson, 23 Worple Road, Wimb don, London, S.W.19.

Devon and Exeter Officers.—The f lowing officers of the Devon and Exe

armaceutical Committee have been pointed: *Chairman,* Mr. Hugh Holmes; *retary,* Mr. W. R. B. Arnold, 1 Old verton Road, Exeter.

Manchester Chemists' Golf. — In a r-ball Stableford competition played by Manchester Pharmaceutical Golfing ciety at Folkingham on July 28 for zes presented by Robinson & Sons, l., the winners were Messrs. J. Clarke d F. Watson (39 points).

ONDON SALES CONFERENCE.—The directorate, lical representative and sales staff of William R. rner & Co., Ltd., photographed after the com- y's annual sales conference held recently in don.

Birmingham Health Centre Planned.— mingham city council has passed plans, w awaiting the approval of the Minister Health, for the erection of an experi- ntal health centre at Stechford. The ntre is to provide surgery accommoda- n for six doctors, nurses' room, clinical oratory, dispensary, a maternity and ld welfare unit and a dental unit, at an imated cost of £38,000.

London N.H.I. Statistics.—The annual ort of the London Pharmaceutical Com- ttee for 1947-48, published recently, tes that the total number of National alth Insurance prescriptions dispensed s 6,798,369 (against 6,560,126 in the vious year and 5,041,555 in 1913) at otal cost of £499,139 (against £364,403 the previous year and £155,516 in 13). The average total cost per pre- iption (including dispensing fee) rose m 7.4d. in 1913 to 23.77d. in 1947.

Plastics in Scotland. — The Scottish uncil (Development and Industry) have t published the final report of a Com- ttee on Plastics in Scotland. The report als with the present position of the ustry, the possibilities for the develop- nt of the industry in Scotland, and the pply of raw materials. In its conclusions Committee claims that there is a paramount need" for synthetic methods for producing phenols and cresols. Copies of the report may be obtained from the Council, price 2s. each.

OVERSEAS NEWS

Copenhagen Exhibition.—A further list of exhibitors at the British Exhibition, Copenhagen, September 18 to October 3, is given below (for first list see *C. & D.*, August 7, p. 167):—Albright & Wilson, Ltd., Fredk. Boehm, Ltd., W. J. Bush & Co., Ltd., Imperial Chemical Industries, Ltd., and May & Baker, Ltd.

Indian Government Research. — The Government of India has formed a Department of Scientific Research under the secretaryship of Sir Shanti Bhatnagar, Indian director of scientific and industrial research. The department is to deal with the work of the Board of Research on Atomic Energy, and the Council of Scientific and Industrial Research, scientific advice to Government departments, *ad hoc* scientific research in India, etc.

Control of Synthetic Drugs. — The Economic and Social Council of the United Nations discussed in Geneva recently a draft convention designed to bring under control all narcotic drugs (and in particular synthetic narcotic drugs) which are at present outside the scope of the 1931 international agreement. It was placed on record that the convention would be made to apply to all narcotic drugs in as short a period as possible.

Foreign Trade Agreements. — Sweden recently signed a trade and payments agreement with the Soviet Zone of Germany. Sweden will provide chemicals, etc., in return for kaolin, potassium, glass, certain optical instruments, etc. Czechoslovakia has signed an agreement with Norway to supply chemical products, etc. In return Norway will send fish oils, alcohol, acids, and iron alloys. France is to supply Czechoslovakia with chemical and pharmaceutical products under a new economic agreement between the two countries, involving an exchange of goods of various kinds worth £12,750,000 in each direction. Trade between Hungary and Holland will be increased under the terms of a supplementary trade agreement signed recently. Holland will supply Hungary with chemical and pharmaceutical products, including quinine. Terms of an agreement between the Soviet Zone of Germany and Hungary include the supply of pharmaceutical materials and glycerin from Hungary in return for instruments, cameras and Jena glassware.

MARRIAGE

FISHMAN-HANCOCK.—At Glasgow, on August 4, Dr. H. Fishman, New York, U.S.A., to May, only daughter of Mrs. M. H. Hancock, M.P.S., 11 Woodview Terrace, Hamilton.

DEATHS

BILLINGHURST.—In London, on July 15, Mr. A. J. Billinghurst, a former London director of T. & H. Smith, Ltd., aged eighty-one. He is survived by two daughters and one son.

JONES.—In Leicester on July 21, Mr. Eidwell Howell Jones, M.P.S., 2 Coral Street, Melton Turn, Leicester, aged forty-two. Mr. Jones, who served his apprenticeship with Wand's, Ltd., Leicester, qualified in 1928, and served as manager of a Leicester branch of Timothy Whites & Taylors, Ltd., for nearly twenty years. He is survived by his widow, Mrs. Hilda Jones, M.P.S.

KENNEDY.—On May 8, Mr. William John Kennedy, M.P.S., 37 Hildebrand Road, Liverpool, 4. Mr. Kennedy qualified in 1939.

MERCER.—On July 29, Mr. Frank Norland Mercer, Ph.C., Bleak House, Haddrick's Mill Road, Newcastle-on-Tyne, 3. Mr. Mercer, who qualified as a chemist and druggist and a pharmaceutical chemist in 1894, conducted for many years a business of his own in Llandudno.

MOXEY.—On July 30, Mr. John J. Moxey, a representative for James Tompkins, Ltd., 386 City Road, London, E.C.1. Mr. Moxey had been a representative of the company for over fifteen years.

SMITH.—Suddenly, at a nursing home in Glasgow, on August 4, Mr. James Smith, M.P.S., aged fifty-seven. Mr. Smith, who was a native of Aberdeenshire, was in business at 9 Broad Street, Derry, Stirlings. He qualified as a chemist and druggist in 1916.

WHITEHOUSE.—On July 28, Mr. Percival Clarence Whitehouse, M.P.S., 35 Ballogie Avenue, London, N.W.12. Mr. Whitehouse qualified in 1920.

WILLS

MR. G. W. BLANKLEY, M.P.S., 97 Front Street, Arnold, Notts, left £12,248 (£12,204 net).

MR. H. M. PHILLIPS, M.P.S., 37 Highland Road, Bromley, Kent, left £733 (£681 net).

MR. C. ROKER, M.P.S., 18 Broad Street, Soutl Molton, Devons, left £634 (net personalty £603)

MR. S. F. F. FULTON, M.P.S., 34 Springfiel Road, St. Leonards-on-Sea, left £65.

MR. J. LILLIS, M.P.S., 12 Cloonmore Drive Sheffield, left £1,543 (£1,463 net).

MISS SHEELA DEAKIN, M.P.S.I., Drumcollogher co. Limerick, left £1,831.

MR. R. J. N. TRUSCOTT, M.P.S., 162 Ivy Dal Road, Nunhead, London, S.E.15, left £361.

MR. J. WALTERS, M.P.S., The Pharmacy Hal Llanboidy, left £6,253 (£5,073 net).

MR. F. CHALLIS, retired pharmacist, The Mal Ealing, London, W.5, formerly of King Stree Southall, Middlesex, left £472.

MR. C. HARRISON, M.P.S., 49 Hainault Roa Leytonstone, London, E.11, left £1,395, with n personalty £1,079.

MR. F. J. HATTON, M.P.S., 45 Roker Park Roa Sunderland, Durham, formerly of Appleby, Wes morland, left £174.

MR. F. BOWMAN, Croydon, chairman Matthews & Wilson, Ltd., manufacturing chemist left £41,464, with net personalty £27,183.

MR. W. F. TURNER, retired pharmacist, 3 Gleb side Avenue, Worthing, Sussex, left £3,659, wi net personalty £3,536.

MR. HENRY CHARLES BROWNE, M.P.S., 44 Cor field Road, Eastbourne, Sussex, left £18,491, wi net personalty £10,516.

MR. W. A. STEVENS, M.P.S., 232 Portland Roa and 7 Braemore Road, Hove, Sussex, left £4,4 (£1,992 net).

MR. R. KIRKNESS, retired pharmacist, Faringt House, Pegwell Avenue, Ramsgate, formerly Bank Street, Ashford, Kent, left £167 (£135 ne

MR. WALTER RENNESSON ASHLEY, M.P.S., Wellbeck Avenue, High Brooms, Tunbridge Wel left £1,136, with net personalty £1,065.

MR. ALFRED BLECHYNDEN, M.P.S., 77 Clayg Lane, Hinchley Wood, Esher, Surrey, left £3,4 with net personalty £2,122.

MR. RICHARD WEATHERILL DUCK, M.P.S., Fc Winds, Westfield Avenue, Whitchurch, Glam, l £668, with net personalty £440.

MR. J. K. TONKIN, M.P.S., 14 Victoria Terra Leamington Spa, Warwicks, left £23,332 (£21,5 net).

MR. A. J. GREATREX, M.P.S., 3 Wentwo Avenue, Finchley, and 176 Long Lane, Finchl London, N.3, left £1,587, (£1,065 net).

MR. E. U. FOSTER, M.P.S., 14 Tewkesbu Avenue, St. Annes Road, Blackpool, Lancs, over 20 years manager for Boots, Ltd., Halif Yorks, left £5,949 (£5,878 net).

MR. HOWARD-TAYLOR, 20 Hightrees Hou Nightingale Lane, Clapham Common, Lond S.W.4, managing director of Howard-Taylor, Lt manufacturing chemists, left £1,385 (£789 net)

MR. B. T. R. SHELTON, M.P.S., Alston, Plyn ton, Devon, formerly proprietor of Balkwill & C Town Street, Plymouth (now Balkwill & Co. (C mists), Ltd., Bedford Row, Plymouth), left £27,5 (£26,720 net).

TOPICAL REFLECTIONS

.H.S. Dispensing

The numerous references in your issue f August 7 to National Health Service ispensing are helpful. The more facts vailable at this early stage in the working f the scheme, the better. The wide geoaphical span of your table on pp. 180-81 nables readers to take a fairly assorted mple of conditions throughout the ountry. Two facts stand out clearly. he first fact is that this service will cost ore than the service it replaces, and at taxpayers must foot the bill. The tter of Mr. B. A. Williams (p. 190) is n intimation of what is to come. A ability of at present unknown extent is e claim of what may be called twoince-caraway-water patients. No one ill grudge these little sufferers their carinatives; and if caraway water runs ort, dill water may come to the rescue. heir mothers are, it appears, "coming rward to claim their rights"—or what ey suppose to be their rights—under the .H.S. Act. In the course of a few years me new complaint may become as fashnable among the aforesaid mothers as the vapours" was among others of their x two centuries ago. Mixtures, your rrespondent adds, are "growing" to -oz. and 20-oz. quantities (we read of -oz. mixtures elsewhere); and ointments 8-oz. lots. have become common. All is is understandable if expense is to be material; but the Service was probably t intended to provide lavish supplies of edicaments for the most trivial ailments.

mitations

The other fact to which I refer is the nitations on dispensing and supply. At esent there *are* limits to what may be spensed and supplied. Dentists may ly order the drugs scheduled in the relent regulations; on and from September 1 ly such drugs will be paid for in reect of prescriptions from dentists. pliances for free supply are only those ecified in another schedule. Concesns made by the Ministry of Health in e enforcement of these schedules render the more necessary that contracting emists should strictly observe the proions: if they fail to do so, they have ly themselves to thank for the conseences. The report of the National Pharceutical Union Executive meeting on . 174-75 shows that the Executive has been putting up a strong case with the Ministry of Health on behalf of the Union's members; the concessions announced by the Ministry may be regarded as the result of this negotiation. In discussion with another Government department, the Home Office, the Executive has been less successful. A request for exemption of practising pharmacists from liability to jury service has, it is reported, been rejected as a matter that will have to await a review of the whole law affecting such exemptions. As far as the present generation of practising pharmacists is concerned, this ruling is equivalent to postponing the subject to the Greek calends. By the time that pupils now signing their indentures are old and grey, more may be heard of the possibility of this exemption.

Old Household Medicines

Under the Norman rule in this country, the supply of medicines and surgical appliances was, we may safely say, in a rudimentary stage. The "De Nominibus Utensilium" of Alexander Neckam, written, probably, before 1200, is a Latin vocabulary, with interlinear Anglo-Norman notes, of the contents and occupations of a feudal household. Manuscripts of somewhat later dates are catalogued in London, Cambridge and Paris. Neckam, Abbot of Cirencester, was a good Latin scholar: the notes referred to were inserted for the benefit of readers whose knowledge of the language was imperfect. This vocabulary was published under the editorship of Thomas Wright in 1857. Neckam gave much space to such pursuits as hunting and agriculture, but only a few lines to the medicines kept in the establishment. He described them as "storacis calamita, non autem storacis sigia nec sigie, corimbrum contineatur sed serapinum, amomatum, opanaculum, abdellum euforbium, sarcatolla, masticum, popileon, oleum, laurinum, vinfacileon, castrorium, anatileon, et epithimata." Some of these words are easily recognisable, even if mis-spelt. Others are puzzling. Serapinum can be either mustard, the gum of a tree growing in Greece, or a medicinal broth. Storax calamita is storax in guttæ; corimbrum is probably a scribe's error for cozumbrum, dregs of liquid storax. Amomatum may stand for amomum (canella). Vinfacileon is usually considered to be the flower of the grape vine.

Xrayser

PERSONALITIES

Mr. Brendan R. Smith, M.P.S.I. (secretary of the Irish Drug Association) completed recently an organising tour of co. Donegal and district.

Dr. Abdel Aziz el Bindary Bey (malaria section director, Ministry of Public Health, Cairo) has been in Britain recently to meet British experts in malaria.

Mr. W. R. Jefferson, M.P.S., addressed recently the Brentford and Chiswick Round Table (of which he is a past chairman) on "The History of Pharmacy."

Mr. C. H. Tomlinson, M.P.S., Penwortham, Lancs, at a meeting of the Preston Rotary Club recently, took part in a discussion on the "supposed illegibility" of doctors' prescriptions.

Mr. G. A. Mallinson, O.B.E. (secretary of the National Pharmaceutical Union) was the author of a letter published recently in the "Sunday Express." He pointed out that drugs supplied by chemists have to conform to standards.

Mr. Joseph W. Sedgewick has won the Duncan Memorial medal and prize as the best student of his year in the chemist and druggist Qualifying examination course at the Heriot Watt College, Edinburgh, as well as the J. Rutherford Hill Conference prize for pharmacy.

Mr. Maurice M. Thatcher, M.P.S. (secretary of the Isle of Wight Pharmaceutical Committee) was the author of a letter published recently in the "Portsmouth Evening News" pointing out that every chemist's shop on the Isle of Wight did N.H.S. dispensing.

Mr. Hector Jackson, for many years a representative for the London area of A. Boake, Roberts & Co., Ltd., has retired on medical advice. Mr. Jackson was primarily concerned with perfumery and toilet products and had been continuing his duties for many months in the face of declining health.

Mr. Clarence G. Tomlinson, M.P.S., F.B.O.A., F.S.M.C. (superintendent of the pharmacy and optical departments of the Ashton-under-Lyne Working Men's Co-operative Society, Ltd.) passed the British Optical Association's examination held in May, in the prescribing and fitting of contact lenses.

Mr. R. H. Henriksen, M.P.S., A.R.I.C., who has been appointed to the Central Health Services Council, is chief pharm cist at Dulwich Hospital, London. He h been a member of the council of the Gu of Public Pharmacists since 1935, edi for the organisation for three years, a president for two years. He was a me ber of the Central Pharmaceutical W Committee and of the Joint Negotiat Committee (Hospital Staffs), and served secretary of the Professional Staffs Co mittee. He now represents the Guild the Pharmaceutical Whitley Council, Joint Committee on a National Pharm ceutical Service, and the Public Servi Committee of the Pharmaceutical Socie Mr. Henriksen took his pharmaceuti training at the Liverpool School of Ph macy, qualifying in 1928. In 1930 he appointed pharmacist to the Liverp Radium Institute & Cancer Hospital, after passing the Associateship exami tion of the Royal Institute of Chemis joined, in 1935, the hospitals staff of London County Council, with which h still serving.

INQUESTS

Baby Swallows Quinine Pills.—A dict of death from misadventure was turned at an inquest at Kiddermin recently on a fourteen-months-old girl v died from quinine poisoning thro swallowing pills found in a drawer.

Poisoned Porridge.—Verdicts of "M adventure" were recorded at the resun inquest at Preston, recently, on three c dren who had died after eating porri accidentally prepared from oatmeal which had been mixed 10 per c arsenic as a rat poison.

Took 150 Aspirins.—At an inquest Newbury recently on a twenty-three-ye old woman who was found dying in hotel, a doctor stated that the woman t him while conscious that she had ta 150 aspirin tablets. The coroner retur a verdict that the woman had commit suicide while the balance of her mind disturbed.

Overdose of Narcotic.—At an inq at Nottingham recently on a thirty-t year-old man, a pathologist stated that dead man must have taken at least grains of phenobarbitone. The overd produced coma and brought on bronc pneumonia which was the actual cause death. A verdict in accordance with medical evidence was returned.

COMPANY NEWS

J. Verity & Co. (Leeds), Ltd. (P.C.).—Capital ,000. To acquire the business of druggists' sun- esmen, etc., carried on at 223A Jack Lane, eds, as J. Verity & Co. Joseph Riall, Thomas ll and Joe Stewart, 64 Aketon Road, Castle- d, directors.

. B. Wilkinson (Chemicals) Ltd. (P.C.).—Capital 5,000. To carry on the business of manufacturers chemical and pharmaceutical preparations, etc. d Wilkinson, Norman Wilkinson, and Stanley lkinson, directors. R.O.: Dudley Hill Chemical orks, Holme Lane, Dudley Hill, Bradford.

Alton Peat Industries, Ltd. (P.C.).—Registered Edinburgh. Capital £1,000. To carry on the iness of preparers and sellers of peat for the nufacture of chemical products, etc. John Allen d Dr. J. R. Allen, David Hutton and Alexander Hutton, directors. R.O.: Leckethill Moss, ryston, Glasgow.

Eureka Rubber Co., Johannesburg.—Mr. R. J. rrier has been appointed a director. Mr. Farrier been general sales manager of P. B. Cow & , Ltd., and is leaving shortly to take up his w appointment.

Glaxo Laboratories, Ltd. — The company an- nces the incorporation of a new subsidiary com- y in South Africa under the name of Glaxo oratories (S.A.) (Pty.), Ltd. The main office at 3 Maasco House, 8 Smal Street, Johannes- g. Mr. A. L. Birchley, M.P.S., formerly a ne sales executive, has been appointed manag- director of the South African company.

BUSINESS CHANGES

The Northern Ireland General Health Ser- es Board now has the following address: 27 elaide Street, Belfast.

Mr. F. E. Rymill, B.Sc., F.R.I.C., M.I.Chem.E., has joined the scientific staff of en & Hanburys, Ltd.

Mr. L. C. Graham, M.P.S., has acquired the armacy at 110 High Street, Southend-on-Sea, ex, formerly carried on by Mr. A. Atkinson, P.S.

The British Tar Confederation and the Coal r Research Association, 9 Harley Street, Lon- n, W.1, now have the following telephone num- r: Museum 3833.

National Co-operative Chemists, Ltd., in njunction with Runcorn and Widnes Co-opera- e Society, Ltd., have opened a pharmacy at urch Street, Runcorn, Ches.

Rentokil, Ltd., insecticide manufacturers, Shoe ne, Fetcham, Surrey, have appointed Mr. D. A. en sales and export manager. Mr. Allen was merly with the Ministry of Food at its London adquarters.

The Employment Secretary, National Associa- n of Women Pharmacists (Miss E. M. E. ghten), now has the following address: 35 York eet Chambers, Bryanston Square, London, W.1 elephone: Ambassador 3885).

SHANGHAI'S INDUSTRY

The war-time shortage of medicines, owing to the absence of supplies from abroad, was responsible for the growth of the manufacture of pharmaceutical and medicinal products in Shanghai. Many new firms came in being and gradually expanded into large enterprises. This information is given in a circular issued by the Board of Trade Export Promotion Department's special register service of information (see p. 197). The largest of the eighty-five pharmaceutical factories in Shanghai are the Sine Laboratory Co., Ltd., the New Asiatic Chemical Works, Ltd., the China Biological and Chemical Laboratories, Ltd., and Yang's Chemotherapeutic Institute. The industry provides a wide range of products, including organic mercurials, sulphonamides, vaccines, hormones, vitamins and insecticides. Dr. Yu has produced penicillin but the cost of production has been high and output has been restricted for this reason.

LEGAL REPORT

Standard Oil and I.G. Farben. — A final decree has been entered in the U.S. Federal Court directing the United States Government to return the major part of the patents and stock it seized from the Standard Oil Co., New Jersey, and three of its subsidiaries. The Federal Judge stipulated, however, that royalties that normally would be paid to the I.G. Farben Industrie, under certain agreements between it and the Standard Oil, New Jersey, companies, be turned over to the U.S. Government. The final judgment gave the Jersey Standard companies the exclusive right to oil refining processes covered by 544 patents for which they paid $35,000,000 to I.G. Farben Industrie in 1929. Another 254 patents seized covered processes for making chemicals from oil raw materials. These were turned over to Jasco, Inc., a company created by Jersey Standard and I.G. Farben Industrie in 1930. Jersey Standard will retain a half ownership in Jasco, while the alien property custodian will hold the other half.

Raw Materials Guide.—The Board of Trade have issued a new "Raw Materials Guide" (H.M. Stationery Office, 1s. 6d.), which is a revision of a previous edition and incorporates information dealing with changes affecting the supply of raw materials up to January 31. The Guide gives the procedure for effecting imports and exports of these materials.

TRADE NOTES

Name Changed.—May & Baker, Ltd. announce that the name pyranisamine maleate, formerly used to describe Anthisan antihistaminic substance, has been changed to mepyramine maleate.

Holiday Closing.—The works and offices of William Freeman & Co., Ltd., Peel Street, Barnsley, will be closed from Friday evening, August 20, re-opening on Monday, August 30.

Revised Prices. — The Anglo-French Drug Co., Ltd., 11-12 Guilford Street, London, W.C.1, announce in this issue details of new prices for a number of products.

Waterproof Dressing. — Details of a new Elastoplast waterproof first-aid dressing are given in their announcement in this issue by T. J. Smith & Nephew, Ltd., Neptune Street, Hull.

Carton and Packaging Materials.—Boxfoldia, Ltd., Bournbrook, Birmingham, offer a service of providing specially-lined boards combining the favourable properties of stiff and limp materials for cartons and other containers.

Smaller-sized Pack. — In this issue Bickiepeg, Ltd., Welwyn Garden City, Herts, announce details of the introduction of 4-oz. jars of their veal bone and vegetable broth. The original larger jars will also continue to be marketed.

Tablet Manufacture. — Cal-Ma-Vite Laboratories, Ltd., 32 North Street, Horsham, Sussex, are now accepting orders for tabletting, both from customers' materials and from ingredients supplied by the company.

Technical Training. — The Northern Polytechnic, Holloway, London, N.7, announce in this issue details of courses for pharmaceutical and medical examinations. A new session will commence on September 27.

Iron and Vitamin C Preparations.—Roche Products, Ltd., Welwyn Garden City, Herts, in their announcement in this issue, give details of their new iron and vitamin C preparation marketed under the name of Ferro-'Redoxon.'

Barium Chloride.—Notice is given by Laporte Chemicals, Ltd., Luton, Beds, that they propose taking up the manufacture of barium chloride. Users of the compound are invited to register their requirements with the company.

Supplies in the Midlands.—Details o their delivery services throughout the Mid lands of all chemists' supplies are given o another page by John Knox (Stoke-on Trent), Ltd., Jaynox Works, King Stree Fenton, Stoke-on-Trent.

Cosmetic Formulas. — As a startin point for experimental work in the pr paration of cosmetics, Croda, Ltd., Snaith Goole, Yorks, issue a chart giving sug gested ingredients for over thirty toil emulsions incorporating the company self-emulsifying stearyl alcohol Polawax.

English Lavender.—We have receive a sample of this season's crop of Engli lavender grown by Parks & Llewelly chemists and distillers, High Stree Hitchin, Herts. The flowers are exceptio ally bold and of good colour and shou yield oil of a very fine quality.

New Temporary Price List.—J. Gros smith & Son, Ltd., 45 Piccadilly, Londo W.1, have issued a new temporary pri list, giving details of wholesale and reta prices (including purchase tax) of the fu range of the company's products. Copi are available on application.

Technical Press Advertising.—Clinic Products, Ltd., Richmond, Surrey, gi details of their two antipruritics whic is now appearing in medical and nursi journals. The distributors of this produ are S. Maw, Son & Sons, Ltd. (Engla and Wales), and Moore Medicinal Pr ducts, Ltd. (Scotland).

Supplies Available.—Due to transpo restrictions, Tessol, manufactured by E. Pearson & Co., Ltd., 425 London Roa Mitcham, Surrey, has not been previous marketed in this country. The deman however, has justified the makers in ma ing arrangements which enables them give delivery of any quantities, carria paid.

Improved Test-Paper Pack.—Johnson Sons, Hendon Way, Hendon, Londo N.W.4, have introduced an improv package for their books of test-papers. T new package is a shell-and-slide cart holding six test books and is heat-sealed transparent plastic tissue for the maximu protection of the contents. The compa issues an eleven-page book dealing with t manufacture of litmus and listing the te papers which it makes.

Research Report.—The report for 19 of the Ovaltine Research Laboratories h

ıst been published by A. Wander, Ltd. During the year the company opened new aboratories specially adapted for the work n nutrition which it has been developing luring recent years. Research on the value f proteins, the assay of B vitamins, the hysico-chemical estimation of vitamins, nd the clinical assay of vitamin P, is mong the work undertaken by the laboraories during the period.

Penicillin Veterinary Cerate. — Glaxo aboratories, Ltd., Greenford, Middlesex, ave introduced penicillin veterinary erate Glaxo for the treatment of bovine nastitis. The cerate is supplied in boxes ontaining 16 tubes, sufficient for a four-ay course of treatment for one cow. Each ube contains a single dose of 100,000 inernational units of penicillin. The peniillin is presented in a non-irritant base of rachis oil with 4.5 per cent. white beesvax to secure a steady and prolonged ction in the udder.

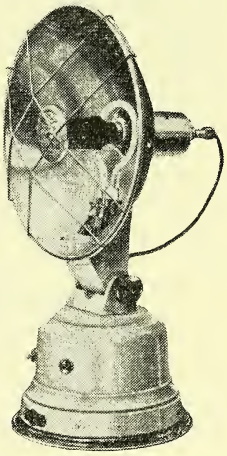
C.F. Perspex Display Plaque. — The .F. perspex display plaque is now being istributed to those chemists who have conributed not less than £2 2s. to the C.F. ublicity and Propaganda Fund. Chenists are reminded that these plaques are eing distributed only on receipt of the pecial order form which was enclosed vith the July issue of the N.P.U. Supplenent and which should be returned to the ecretary, Chemists' Federation, 4-5 Queen Square, London, W.C.1, as soon as ossible.

Oral Iron Therapy.—Ferrivenin, a prearation of saccharated oxide of iron ssued by Bengers, Ltd., Holmes Chapel, hes, is indicated in the treatment of reractory hypochromic anæmia or when ymptoms of intolerance occur with oral ron therapy. Ferrivenin is prepared by a rocess claimed to ensure a sterile and table solution free from toxicity. The prearation is available in 5-c.c. ampoules, ach containing 100 mgm. of metallic iron n 2 per cent. sterile solution. Each amoule administered is understood to raise he haemoglobin level by 4 per cent.

New Multiple Injection Container.—William Freeman & Co., Ltd., Suba Seal Works, Peel Street, Barnsley, announce hat they are introducing a new multiple njection container which consists of a vaccine bottle made from alkali-free lear or amber glass, a Suba Seal rubber ung and a plastic cap. On the inside of he cap is an annular rib which engages vith the Suba Seal bung to ensure complete closure of the bottle during sterilisation. The Suba Seal rubber bung is made in two designs, one which fits flush with the top of the bottle neck, and the other having a dome-shaped upper end which fits over the top of the neck.

Catalogue of Fine Chemicals. — A. Boake, Roberts & Co., Ltd., Carpenters Road, Stratford, London, E.15, have issued a new catalogue of fine chemicals, emulsifying agents, essential oils, compound perfumes, floral bases and other products manufactured by the company. The items are arranged alphabetically with specifications and descriptions together with useful notes on the commercial and technical uses of each product. Bulk and small quantity prices are also indicated, with packaging details. The catalogue is produced on the loose-leaf system with a limp black leatherette cover, and the layout of the letterpress is arranged to provide easy and quick reference. A limited number of copies are available to manufacturers and wholesalers on application.

Triple-ray Lamp. — The Soltan artificial sun lamp illustrated incorporates ultra-violet mercury vapour quartz, radiant-heat and infra-red burners, usable either singly or together, in a compact apparatus weighing only 9¾ lb. The lamp is 21 in. high and 12 in. wide and thus specially suitable for use by doctors in their surgeries. It is one of a range of models issued by the London Commercial Electrical Stores, Ltd., 20 Cursitor Street, London, E.C.4, and is available for immediate delivery to chemists.



TRADE LITERATURE

The journal of John Tye & Son, Ltd., 457 Caledonian Road, London, N.7, entitled "Tye View," is a quarto 16-page monthly magazine, lavishly illustrated, with colour on black and a different second colour each month. The subject matter deals with capsules, well coated with general interest features.

NEW BOOKS

Brazil.—A. H. W. King, C.B.E. Pp. 91. **Egypt.** — J. W. Taylor, C.M.G., M.B.E. Pp. 87. Both 9½ in. x 6 in., 2s. Further books in the series published for the Board of Trade Export Promotion Department by H.M. Stationery Office. The report on the economic and commercial conditions in Brazil has sections dealing with finance, legislation, national industries, agriculture, minerals, public works and communications, foreign trade, treaties and other aspects of the commercial life of the country, together with a valuable summary of recent events, including the Anglo-Brazilian Trade and Payments Agreement, 1948. Of the Brazilian chemical industry, the author says that most sections are of comparatively recent growth and makers of pharmaceutical and toilet products rely largely on imported raw materials. A number of chemical manufacturing concerns are subsidiaries of foreign firms. Exports of pharmaceutical preparations in 1946 totalled 552 metric tons, almost double the volume of the previous year. Imports of chemical and pharmaceutical products in 1946 totalled 175,796 metric tons valued at Cr$573,057, compared with 132,440 metric tons in 1938 with a value of Cr$235,011. The report on Egypt was prepared in Cairo in November 1947 but additional information has been added together with foreign trade figures for 1947. It follows the usual pattern of these surveys and includes a wealth of statistical material in appendices, covering principal imports and exports, shipping, production of minera etc. Imports of chemical and pharmaceu cal products in 1946 totalled E£2,894,74 compared with E£2,571,901 in 1945, a E£935,138 in 1938. The increase ov the 1938 total was due to the large ord placed abroad to make up for seve shortages which occurred during the la stages of the war. The imports total serum and vaccines also increased betwe 1938 and 1946. The 1938 figure w E£28,470 (U.K. share, E£9,127); 1946 it was E£51,659 (U.K., E£48,24

Tables of Physical and Chemical Co stants.—G. W. C. Kaye and T. H. Lab 9½ in. x 6¼ in. Pp. 194. 21s. Longma Green & Co., Ltd., 6 Clifford Street, Lo don, W.1. The publication on June of a tenth edition of the *Tables* brings to date a work that has been found valuable in day-to-day use by teache laboratory workers and others. Informati given includes physical constants organic and inorganic chemical co pounds (formula weights, densities, me ing and boiling points, etc.); Gravimet factors; densities of solutions of eth alcohol, acids and alkalies; vapour pr sures; optical rotation; ionic dissociatio thermometry specific heats of elemen heats of combustion; photometry; *x*-r spectra; atomic constants; isotopes; a mathematical constants (logarithms, natu sines, etc.). Professor T. H. Laby di while the edition was being compiled, a the edition was completed by Miss Laby.

"APPROVED NAMES" FOR DRUGS

A statement issued recently by the General Medical Council

New names of drugs have been made official by their use as the titles of monographs in the British Pharmacopœia. Names for certain other drugs, for which no official monographs are provided, have been published as "Approved Names," the intention being that if any of the drugs is eventually described in the British Pharmacopœia, the Approved Name shall become its official title. The recognition of an Approved Name does not imply that the substance will necessarily be included in the Pharmacopœia. These names are now brought together for reference, together with other names under which the drugs have been known. For some drugs numerous other names have been introduced; the lists that follow include, in most instances, under "Other Names," only the names under which the substan were originally introduced; some of th names are registered trade marks.

Since the intention is to give recog tion to non-proprietary names which m be used freely by manufacturers, and th avoid the difficulties which arise fr the multiplication of names for the sa substance, it is hoped that the Approv Names will be generally adopted and us in prescribing. The introduction of n names for substances for which Pharm copœial names or Approved Names a available is especially deprecated, but if manufacturer should desire to issue un a proprietary name a drug for which Approved Name has been provided, it strongly recommended that the label sh bear the Approved Name of the substar

letters no less conspicuous than those which the proprietary name is printed.

Table 1.—Names made official by Addenda to e B.P., 1932, and by the B.P., 1948:—

HARMACOPŒIAL NAMES	OTHER NAMES
cetarsol	Stovarsol
cetomenaphthone	Kapilon-Oral; Prokayvit
methocaine hydrochloride	Decicaine
minacrine hydrochloride	Acramine yellow
mphetamine	Benzedrine
mphetamine sulphate	Benzedrine sulphate
romethol	Avertin
utacaine sulphate	Butyn
utyl aminobenzoate	Butesin
arbachol	Doryl
hiniofon	Yatren
inchocaine hydrochloride	Nupercaine
eoxycortone acetate	D O C A
iodone, injection of	Perabrodil
iphenan	Butolan
ithranol	Cignolin
mulsifying wax	Lanette wax SX
rgotamine tartrate	Femergin
lexobarbitone	Evipan
lexobarbitone sodium	Evipan sodium
lydrous ointment	Eucerin (hydrous)
odised oil	Lipiodol
odoxyl	Uroselectan-B
eptazol	Cardiazol
lenaphthone	Kapilon
lepacrine hydrochloride	Atebrin; quinacrine hydrochloride, U.S.P. XIII
lepacrine methanesulphonate	Atebrin musonate
lersalyl, injection of	Salyrgan
lethylphenobarbitone (phemitone)	Prominal
leostigmine bromide	Prostigmin
leostigmine methylsulphate	Prostigmin
likethamide	Coramine
xytocin, injection of	Pitocin
amaquin	Plasmoquine
entobarbitone sodium	Nembutal
ethidine hydrochloride	Dolantin; Demerol
henytoin sodium	Epanutin
rogesterone, injection of	Proluton
ilver protein	Protargol
odium aurothiomalate	Myocrisin
tibophen	Fouadin
ulphacetamide	Albucid
ulphacetamide sodium	Albucid soluble
ulphanilamide	Prontosil album
Sulphapyridine	Dagenan; M. & B. 693
uramin	Germanin; Bayer 205; Antrypol
heophylline with ethylenediamine	Euphyllin, Cardophylin
hiopentone sodium	Pentothal sodium
asopressin, injection of	Pitressin
inyl ether	Vinethene
ool Alcohols	Hartolan wax
ool Alcohols, ointment of	Eucerin (Anhydrous)

Official in the Seventh Addendum to the British harmacopœia, 1932, but not included in the ritish Pharmacopœia 1948.

The approved names for compounds are given in the table below:—

Table 2.—Approved names:—

APPROVED NAMES	OTHER NAMES
Cetrimide	Cetyltrimethylammonium bromide; Cetavlon
Cyclobarbitone	5-Δ^1-Cyclohexenyl-5-ethylbarbituric acid; Phaneodorm
Dimercaprol	2:3-dimercaptopropanol; British Antilewisite; B.A.L.
Dimethylstilbamidine	4:4′Diamidino-α-β-dimethylstilbene
Hexazole	4-Cyclohexenyl-3-ethyl-1:2:4-triazole; Azoman; Triazole
Maphenide	*p*-Aminomethylbenzenesulphonamide; Marfanil
Meprochol	Trimethylmethoxypropenylammonium bromide; Esmodil is a 0.3 per cent. isotonic solution
Mesulphen	:6-Dimethylthianthrene; Dimethyldiphenylene disulphide; Mitigal
Pentamidine	α:*w*-(4:4′-Diamidinodiphenoxy) pentane
Pheniodol	α-Phenyl-β-(4-hydroxy-3:5-diiodophenyl)-propionic acid; Biliselectan
Pholedrine	β-Methylamino-4-hydroxypropylbenzene; Veritol
Proguanil	N-*p*-Chlorophenyl-N-*iso*propylbiguanide; Paludrine
Propamidine	α:*w*-(4:4′Diamidinodiphenoxy) propane
Sodium stibogluconate	Sodium antimonyl gluconate; Pentostam
Stilbamidine	4:4′Diamidinostilbene
Sulphadimidine	2-(*p*-Aminobenzenesulphonamide) 4:6-dimethylpyrimidine; Sulphamezathine; Sulphadimethylpyrimidine
Thialbarbitone	5-Δ^2-Cyclohexenyl-5-allyl-2-thiobarbituric acid; Kemithal
Thiomersalate	Sodium ethylmercurithiosalicylate; Merthiolate

Germ-free Concrete. — A patent has been taken out in Washington for a cement into which about 1 per cent. pentachlorophenol or some related antiseptic compound is mixed. Concrete made with the cement is claimed "virtually germ-free."

REVISION OF THE SOCIETY'S CONSTITUTION

At the Branch Representatives' Meeting held in September 1947, a Council memorandum setting out a number of tentative proposals for the revision of the Pharmaceutical Society's constitution was discussed. The views expressed there have been noted by the Council, and the proposals have also been discussed informally with the Privy Council Office. The Council has now prepared a further memorandum for discussion at the Branch Representatives' meeting on September 2.

The Society's constitution, says the memorandum, is contained in its charter and by-laws and in legislation affecting pharmacy. To deal with matters contained in the charter or appropriate for control by charter, an amending charter will be needed. For matters involving legislation a new Act of Parliament will be required. By-laws are made by the Council under authority, express or implied, given by the charter or legislation. An amending charter could be obtained within a comparitively short time, and it would be possible to have included in it a provision (a common feature of modern charters) whereby further changes could be made without an amending charter, a less cumbersome procedure being available. For matters requiring an Act of Parliament there is no prospect of amending legislation during the life-time of the present Parliament, and no indication can be given of the possibility of such legislation in the next Parliament.

The Council's view is that application should be made as soon as possible for an amending charter, and such progress made with the matters needing legislation as will facilitate it when the time becomes favourable. The proposals are summarised below. Those to which effect can be given by an amending charter are marked C, those requiring legislation A, and those suitable for regulataion by by-law B.

Council's Proposals

(1) Objects, Powers and Duties (C): The proposals (i) to change the object relating to the "protection of those who carry on the business of chemists and druggists," (ii) to omit the word "chemistry" from the objects, and (iii), to modify the object dealing with education, are confirmed. It was considered advisable to recast the objects as follows: To advance pharmacy; to promote pharmaceutical education and the application of pharmaceutical knowledge; to maintain the honour and promote t interests of the pharmaceutical professio to provide relief for persons who are or ha been members of the Society and th dependents.

(2) Membership and the Statuto Registers (A): The proposal for a sin registrable qualification and the use of the existing titles by any pharmacist confirmed.

To Mark Higher Attainments

(3) Fellowship (A): When, as a res of the single Register, all pharmacists entitled to use the title "pharmaceuti chemist" the distinction which this t has conveyed will cease to exist. To ma the possession of higher attainments af that, the creation of a fellowship is p posed. To preserve the distinction enjoy by persons holding the pharmaceuti chemist qualification which is at pres indicated by their exclusive use of this ti it is proposed that such persons who ha qualified before the introduction of single register should automatically rece the title "Fellow." For persons w qualify after that time, new conditions the conferment of the Fellowship will laid down.

(4) Honorary and Corresponding Mi bership (C) (B). The proposals are c firmed (i) to replace honorary members by honorary fellowship and (ii) for a mo fication of the conditions for correspond membership to provide for the grade be conferred upon persons of standing res ing in other countries, but who are n necessarily qualified for election as hon ary members (or, later, as Fellows).

(5) Colonial and Foreign Pharm cists: The proposals affecting such clas have already been carried into effect the Medical Practitioners and Pharmac Act, 1947.

(6) Graduates in Pharmacy (A): T proposal to make provision for registeri graduates in pharmacy of British Unive ties subject to such conditions as may prescribed by by-law is confirmed.

(7) Constitution of Council (A): T proposal is confirmed that the Privy Coun should be empowered to appoint, after c sultation with the Council of the Soci not more than three additional pharmac members of the Council, the decision h many, if any, of the places to be filled any time to rest with the Council.

(8) ORGANISATION (B): The proposal hat the Branch system and the meetings of ranch Representatives should be formally ecognised in the by-laws is confirmed.

(9) MEMBERSHIP GROUPS (B): The proosal that provision should be made in the y-laws for the formation of special groups f members of the Society is confirmed. he proposal does not relate to the estabshment of groups within the branches, ut to the formation of groups on a ational basis. It should be possible, with- the Society, for groups of members with pecial interests to find a means of organisng themselves without having to go outde the Society, with the consequent possiility of divergences in policy as between e group and the Society and loss of the eling of common interest with other harmacists.

(10) INTERNAL FREEDOM (A): The proosal that the Society should be free to egulate by by-law certain matters of inernal organisation such as the mode of lection and terms of office of officers and embers of Council is confirmed.

roposals for Scotland

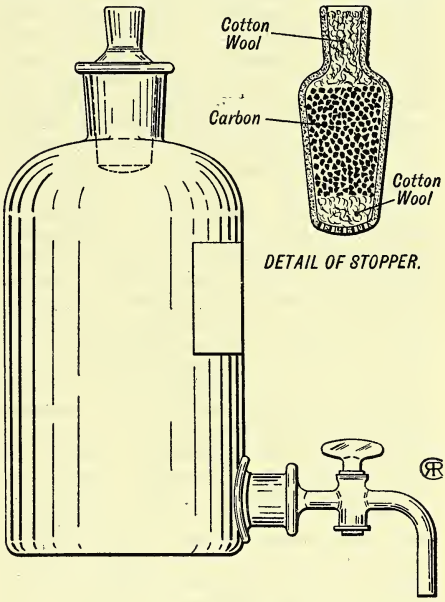
(11) SCOTTISH ORGANISATION (C): The xecutive of the North British Branch ave submitted a proposal for the recogition, in the constitution, of the Society's rganisation in Scotland known in the past s the North British Branch. The organiation is at present regulated by a resolion of Council of 1886, and comprises he Board of Examiners in Scotland; the xecutive, including the president, vicepresident, and members of Council residing n Scotland, *ex officio*; and the house nd other property of the Society in cotland. The Council agree with the iews of the Executive and propose that he Scottish organisation, as defined in the esolution, should be embodied in the harter subject to a change in the number nd terms of office of the members of the xecutive. The change of name to "Scottish Department" is already made.

(12) BRITISH PHARMACEUTICAL CONFERENCE (B): Its constitution is the result of an agreement between the British Pharmaceutical Conference and the Society in 1922 whereby the Conference was brought under the ægis of the Society. It has not been given a place in the Society's constitution. After consultation with the Conference, which has indicated its desire for recognition as part of the Society, the Council propose that, subject to the approval of the Executive Committee of the terms, the Conference be constituted and regulated by by-law.

(13) ANACHRONISMS: The proposal that various anachronisms in the Society's constitution be remedied during the constitutional revision is confirmed.

STORING BACTERICIDAL SOLUTIONS

A METHOD of storing distilled water or solutions of bactericides, making use of air-filters located in the hollow stoppers of the containers, has been described by Professor J. P. Todd, Ph.D., Ph.C. The containers are one-litre aspirator-type



bottles, with tubulures ground to standard size so that the stoppers are interchangeable. The lower surface of each hollow stopper (see diagram) is perforated to allow the passage of air, and the central cavity of the stopper is packed with cotton- or glass wool to act as a dust filter when liquid is drawn from the container. To prevent contamination of the liquid by chlorine or ammonia from the atmosphere, the cavity is packed with adsorbent carbon granules between two layers of cotton- or glass wool. The bottles were made to Professor Todd's specification by Beatson, Clark & Co., Ltd.

COUNCIL'S STATEMENT ON N.H.S.

THE Council of the Pharmaceutical Society has issued a statement, for discussion at the Branch Representatives' meeting at Brighton on September 2, on the pharmaceutical aspects of the National Health Service. In general the statement does not deal with terms of service or remuneration. In all negotiations in which pharmacists may be concerned, says the Council, an adequate pharmaceutical service can only be secured if at each level there is full participation by pharmacists.

Health Centres

Attempts should now be made, it is suggested, to establish liaison with local Health Committees. Pharmacists may serve on such committees, or liaison committees may be established between the Health Committee, and the local Pharmaceutical Committee and/or branch of the Society, or between their officers, to discuss subjects including health centres, the organisation of a Health Committee's pharmaceutical department, and clinic services. Although building difficulties have caused plans for health centres (apart from a few experimental ones) to be delayed, the Ministry of Health has found it necessary to provide for the continued treatment of medical-aid society patients, and has asked local authorities to carry on the dispensaries of such societies experimentally for six months. The doctors use the consulting rooms as before, and the pharmacist enters into contract with the Executive Council to supply the medicines. The disadvantage is not only the unorganised competition with local pharmacies but the fact that the name "health centre" will become associated with what is sometimes little more than a communal consulting room with the simplest accessory services. The Society and the National Pharmaceutical Union have already made representations to the Ministry on medical aid dispensaries.

The Society is asking for the fullest information about the standards of their pharmaceutical departments so that it can advise the Ministry about their continuance. It must be made known to patients that they are free to take their prescription to the chemist of their choice. Pharmaceutical Committees and branches should offer to discuss with Health Committees any development plans for health centres, as both parties are primarily concerned to see that the public gets the best possible service and that pharmaceutical facilities in health centres shall be complementary to, and not in competition with, local pharmacies. Opportunities must be taken, continues the Council's statement, to urge the appointment of experienced pharmacists to the staff of local authorities that are handling substantial quantities of pharmaceutical supplies or otherwise dealing with pharmaceutical problems. Local branches should offer to discuss with Health Committees problems arising from the distribution of medicines and food through clinics.

Hospitals

The Society has represented to the Ministry the need for advisory pharmacists to Regional Hospital Boards—a matter for the early attention of the Pharmacy Advisory Committee under the Central Health Services Council. The responsibilities of chief pharmacists need defining. Where a number of hospitals are grouped there may be room for the appointment of a pharmacist as the senior pharmaceutical officer for the group (there is at present no provision for such an office in the scales and conditions of service of the Joint Negotiating Committee). The position of chief pharmacists in relation to supplies officers also needs defining, and the responsibility for the ordering, storage and distribution of pharmaceutical supplies must be the responsibility of the pharmacist. As the whole of the hospital services are now in a fluid state, chief pharmacists, the pharmacists of a group of hospitals, or the pharmacists of a region, may find this an appropriate time to present proposals for the development of the pharmaceutical services with which they are concerned.

Retail Pharmacy

Referring to retail pharmacy, the statement says that although the responsibility of the pharmacist-owner is clearly defined under the Regulations, that of the manager is put on his employer, with whom his relationship is regulated by the law relating to master and servant. This can never be a satisfactory basis for the performance of professional work where, whatever the law may say, the responsibility does in fact rest upon the man who performs or person-

lly supervises the work. Representations o the Ministry for the recognition of the osition of the pharmacist-manager in the ontract have so far been unsuccessful, but t should be possible to define the respec- ive responsibilities of the employer and he employee so that neither is asked to ccept responsibility for something over hich he has no effective control, and so hat the pharmacist's place as the person esponsible for the professional functions e performs will be clearly marked. The Society is to continue its discussions on he subject.

The increase in National Health Service dispensing, the development of health centres and the new scale of remuneration provide different reasons for the modernisation of the accommodation and equipment of pharmacies. Many pharmacists are known to have made or to be making modifications in their accommodation and the Society's inspectors may be informally consulted during their calls by any pharmacists who may wish to have external advice. The Society will also assist in negotiations for building licences.

Manpower

The problem of pharmaceutical manpower needs to be reviewed afresh. There are enough "pharmaceutical units" (chemists' shops, hospitals, health centres, dispensaries, etc.) and enough pharmacists to provide all the needs of the public, if they were directed primarily to pharmaceutical work. Neither more "units" nor more pharmacists will remove any bottlenecks that may develop. The pharmacist in control of a pharmacy, although he may be able to, supervise closely, cannot with his own hands perform all the pharmaceutical operations required; he has general duties to perform. It is therefore necessary to provide additional assistance which will enable the pharmacist to give the necessary general oversight without having to perform every detailed operation himself. By a properly organised system of assistance his efficiency can be greatly increased. Pharmacy has already developed the semi-skilled worker through the apprenticeship system and by means of the "unqualified assistant" and will no doubt continue to use such assistance. The question now is whether this should be left, as in the past, to haphazard growth or whether some attempt should be made to systematise it. The position of the pharmacist in the hospital, shop or health centre is assured by the Act. Can the position of the unqualified assistant now be regularised without detriment to the pharmaceutical qualification?

Advertising by Chemists

The National Health Insurance Act and the development of local associations and the Society's branches have eliminated much of the competitive element from retail pharmacy. The practice of advertising the services which particular chemists can give is, however, detrimental to the growth of goodwill among them and produces in the mind of the public the impression that there are varying standards of pharmaceutical service: it suggests that the qualification by itself is not the thing upon which the public have to rely. The Society therefore included among its "Matters Relating to Professional Conduct" a prohibition of the advertising of dispensing services which it is seeking to secure both through the Statutory Committee and by the weight of members' opinion.

A number of problems, including that of dispensing in rural areas, have been discussed between the national pharmaceutical bodies and the British Medical Association. The development of local liaison between branches of the Society and divisions of the B.M.A., as well as between local Pharmaceutical and Medical Committees, would be valuable. The statement concludes by saying that the provision of refresher courses for pharmacists on a wider scale than hitherto, and the possibility of securing their recognition by the Minister under Section 48 of the Act, is being considered by the Society.

Medical Research in the 1939-45 War.—The record of the Medical Research Council's work during the war years has been published by H.M. Stationery Office as a book of 455 pages. Sections directly affecting pharmacy, although important, occupy only a small portion of the book, but a chapter dealing with the Council's part in the research on penicillin is a fascinating record. A section on the Department of Biological Standards acknowledges gifts of pure crystalline penicillin from Glaxo Laboratories, Ltd., pure ascorbic acid from The British Drug Houses, Ltd., and Roche Products, Ltd., pure β-carotene from Lever Bros., Ltd., and gas-gangrene antitoxins from the Wellcome Physiological Research Laboratories. A list of the Council's publications is also now available.

Chemist Contractors give their views on—

THE FIRST MONTH OF NATIO

A further selection from replies received to the *C. & D.* question

Locality	Increase in total Dispensing	Percentage		Changes in Character of N.H.S. Dispensing	Supply	
		N.H.S.	Private		Drugs	(ta
Edinburgh ..	Nil	36	64	Proprietaries predominate.	No	
Cambridge .. (several shops)	45% (others up to 200%)	75	25	More ethical preparations, dressings.	No	
West of Scotland ..	2-3%	42	58	Higher proportion of formulary mixtures. Larger quantities.	No	
Wealdstone ..	50%	95	5	Yes, more expensive preparations in large quantities.	A few short	
Bristol, 4	100%	99	1	More proprietaries.	No	
Paisley	—	43	57	No noticeable change.	No	
Kilcreggan ..	33⅓%	40	60	N.F. preparations rarely dispensed	No	
Berwick-on-Tweed	50%	90	10	No.	No	
Blackpool	10%	96	4	More proprietaries.	No	
Llanelly	100%	100	—	More items on each prescription.	No	
Bedford	100%	92	8	More " ethicals."	No	
Darlington ..	100%	95	5	Marked increase in " ethicals."	No	
Peterborough ..	100%	90	10	More proprietaries.	No	
Birmingham .. (several shops)	65% average	95	5	More " ethicals."	No	
Newcastle-on-Tyne	250%	66	34	Many more " ethicals."	No	
Reading	90%	97	3	No.	No	
Exeter	Nil	—	—	More specialities.	No	
Cheltenham ..	30%	80	20	Increase in proprietaries.	No	
Ipswich	20%	60	40	More proprietaries.	No	
Barnet, Herts ..	50%	96	4	Slightly more proprietaries.	Yes	
London, W.6 ..	150%	90	10	More " ethicals," proprietaries and infant medicines.	No	
Keith, Banffs. ..	50%	95	5	Larger quantities prescribed.	No	S
Coupar, Fife ..	28%	65	35	Larger quantities prescribed.	No	
Edgware	120%	75	25	No definite change.	No	
Ayr	10%	92	8	No change.	No	
Stoke-on-Trent ..	90%	98	2	More children's prescriptions.	No	
Aberdeen (3 shops)	—	90	10	Larger quantities, chiefly tablets.	No	
Kingston-on-Thames	Nil	90	10	More proprietaries.	No	
Worcester	25%	60	40	More proprietaries.	No	
Brighton	130%	70	30	No.	No	
Bath	120%	45	55	Larger quantities and more " ethicals."	No	
Dumfries	Nil	51	49	No.	No	
Stirling	Nil	65	35	Larger quantities. Tablets.	No	
East Lothian ..	75%	79	21	No.	No	
Macclesfield ..	100%	100	Nil	Rather more " Patents."	Yes	
Manchester ..	33%	95	5	More specialities.	No	
Merioneth	400%	95	5	Higher cost : more " ethicals "	No	

ALTH SERVICE DISPENSING—2

dispensing is summarised below. (See *C. & D.*, August 7, p. 180).

N.H.S. rking othly?	Has N.H.S. affected sales of Proprietaries?	General Remarks
Yes	No.	—
Yes	Definitely. Privately prescribed "ethicals" now N.H.S.	Public determined to use N.H.S. to the limit. Pharmacists determined to provide adequate service.
Yes	Not noticeable.	N.H.S. prescription forms not in duplicate. Time wasted in recording.
Yes	Yes, about 20 per cent. reduction.	Rotas not much in evidence. Patients certainly know that medicines are "free."
Yes	No.	—
Yes	No.	With staffing difficulties, the coming winter will be a hectic one, particularly if any epidemics arise.
Yes	Not appreciably.	—
Yes	No.	—
Yes	No.	—
Yes	None at all.	More proprietaries and children's prescriptions.
rfectly	Counter sales now prescribed.	Larger quantities, mixtures up to 24 oz.
Yes	No.	More time taken in dispensary.
Yes	No.	—
Yes	Only slightly.	More multi-dose mixtures and increase in children's prescriptions.
Yes	Down by 10 per cent.	Doctors appear unfamiliar with "pack" sizes of "ethicals." Private dispensing unaffected so far.
Yes	No definite change.	—
Yes	No.	35% more N.H.S. 35% less "private"
Yes	No noticeable effect.	Rota service needs double previous staff.
Yes	No, sales now on N.H.S.	Doctors prescribing proprietaries.
Fair	About 10 per cent. less	—
Yes	Not much except children's medicines.	"No accommodation—no staff."
Yes	No.	Prescriptions for larger quantities, chiefly tablets.
Yes	No.	20% scripts two or more items; 11% proprietaries; 30% married women; 6% "under 14 years."
Fair	No.	—
Yes	Not noticeable yet.	—
Yes	Slight decline.	Larger quantities of mixtures and tablets.
Yes	No.	West End pharmacy—no increase; two in industrial areas, big increase in N.H.S. dispensing.
Yes	No indication so far.	—
Yes	Not so far.	No rota service. N.H.S. "Peaks" are 9-11 a.m. and 6—8 p.m.
Yes	No.	Larger quantities ordered.
Yes	Not to any extent.	Some doctors not yet accustomed to N.(W.)F. Big increase in tablets.
Yes	Not.	Confident N.H.S. will work well.
Yes	Not so far.	—
Yes	Not noticeably.	—
Fair	Very little change.	Dispensing too heavy in evenings.
Yes	No so far.	Pressure on half-day rota hour.
Yes	No effect	Hardly any mixtures over 8oz.

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VOL. CL AUGUST 14, 1948 No. 3573

N.H.S. Dispensing in Operation—2

THE final selection of replies to the *C. & D.* questionnaire summarised in table form and published on p. 212 substantially confirms the information given in the first replies on which the table published in last week's issue (pp. 180-81) was based. In England and Wales it seems that, with but isolated exceptions, there has been a general and substantial increase in dispensing, the large majority of which was N.H.S. "Private" dispensing in most industrial areas has shrunk almost to vanishing point, while in some residential districts it is only slightly less than hitherto. In Scotland, the reports indicate that so far the increase in total dispensing has not been nearly so great as in England and Wales, nor has the change-over from "private" to N.H.S. been so general. In fact, with the exception of some few industrial areas, "private" prescriptions continue to form an important part of the dispensing work North of the Tweed.

The editorial comments made last week on the change in character of dispensing since July 5 have been amply confirmed by the reports which have since come to hand. Chief emphasis is laid by contractors on the persistent prescribing of ethicals and proprietaries, on the larger quantities being ordered, and on some prescriptions containing an unusually large number of items. On the subject of cost one chemist contractor has calculated that under N.H.I. his average total cost (fee and drugs) per prescription was 3s., and that under N.H.S. the average (from 1,000 scripts) was 6s. 6d. Some few reports indicate pending difficulties on account of shortage of containers, mostly the larger-sized bottles. Occasional staffing troubles seem to be due to lack of accommodation, without which employees will not accept positions.

Over 80 per cent. of the questionnaires sent out have been completed and returned. We could not publish all of them, but those selected from what was a comprehensive survey of the position will, we are satisfied, convey to our readers a true picture of the first month of N.H.S. dispensing.

No Limit

Lack of familiarity with the regulations on the part of some doctors new to the service and, perhaps, the widespread publicity to the effect that there is no limit to the treatment available free, have caused some unusual items to be prescribed as "drugs." The correct method of dealing with such prescriptions has puzzled some chemists, although the position is fundamentally the same as it was under National Health Insurance. Even then, unusual items were sometimes prescribed. Mr. A. B. Gilmour, writing of his experiences of N.H.I. in Scotland (*C. & D.*, 1947.II.778), recalled prescriptions for such things as 2 lb. treacle, 2 lb. ice, 1 lb. Pistany mud from Czechoslovakia, whisky, 27 gall. of distilled water and 1 oz. of glycerin and lemon gums. One patient, over a period of ten years, received 1,010 prescriptions for a proprietary preparation at a cost of £1,249.

Under N.H.S. a practitioner is "required to order . . . . . such drugs and prescribed appliances as are requisite for the treatment of any patient." The appliances that may be prescribed are limited and, as we pointed out last week, the onus for refusing to supply a non-authorised appliance falls upon the chemist. The only limitation on the drugs that may be prescribed is that given in Regulation 12 of the N.H.S. (Service Committees and Tribunal) Regulations: "Where it appears to the Minister after an investigation of the orders for drugs and appliances given by a medical practitioner to persons on his list . . . . . that there is a *prima facie* case

for considering that by reason of the character or quantity of the drugs or appliances so ordered . . . the cost is in excess of what was reasonably necessary for the proper treatment of those persons, the Minister may refer the matter to the Local Medical Committee for their consideration." The N.H.S. (General Medical and Pharmaceutical Services) Regulations require a chemist to supply with reasonable promptness any drugs or appliances ordered in the correct manner. There is no limiting definition for "drugs" ordered by a doctor such as there is for "appliances" or for "drugs" when ordered by a dentist. The position seems clear, then, that a chemist should dispense (and should receive payment for) any unusual "drug" ordered by a doctor. The responsibility for deciding whether a doctor's prescribing is "excessive," or whether something ordered as a "drug" is in fact a drug, does not appear to be with the chemist. It is for the doctor, if called upon to do so, to justify his prescribing. There is nothing, however, to prevent friendly co-operation between a chemist and a doctor who has, through obvious inadvertency, prescribed something that is likely to cause him some difficulty with his Local Medical Committee.

Dangers of the Handkerchief

RESULTS, recently published, of investigations conducted by the Medical Research Council's Common Cold and Air Hygiene Units at the Harvard Hospital, Salisbury, into how the use of handkerchiefs affects the transfer of respiratory infection, are of some pharmaceutical significance. Dumbell and other workers at the hospital ("Lancet," July 31, p. 183), have found, for example, that an average of 15,000 infected particles may be distributed into the atmosphere by the gentle manipulation of a dry used handkerchief, and that, while airborne, the particles are resistant to the action of aerial disinfectants such as triethylene glycol, lactic acid, and α-hydroxy-α-methyl-butyric acid — compounds which are described as the best disinfectants available. As the particles are eight times larger than "droplet nuclei" they may contain a correspondingly greater number of micro-organisms from the respiratory tract. Volunteers who had deve oped common colds experimentally (se *C. & D.*, 1947.I.78) were issued wit sterile handkerchiefs, which were collecte for the investigation after two days' us The used handkerchiefs were allowed t dry overnight under controlled condition and the following day were shaken, on at a time, by being held in the air-strea from a mechanical blower, in a small ai tight room, the walls of which had pr viously been thoroughly washed. The a was sampled bacteriologically by a sli sampler during a two-minute period shaking, and the infected particles so co lected incubated on an agar plate, an the resulting colonies counted. The exper ments were repeated with manual shakin an operator wearing only bathing trunl and a dust mask shaking the dry us handkerchiefs in the experimental room they would be shaken in normal usage. E the manual method an average of abo 15,000 infected particles were dissipate into the air compared with some 60,oc when the more vigorous mechanical sha ing was used.

The chemical disinfectants were liberate into the air of the room by being droppe on to a hotplate maintained at 200-250 placed just below the air-stream of a sma fan, to ensure the rapid mixing of t disinfectant vapour. Although the aeri concentration of each disinfectant us (150-200 μgm. per cu. ft. of air) was abo twice that recommended for use in occ pied rooms, the particles from the han kerchief were resistant to the disinfecta action at normal relative-humidities. Ultr violet radiation at an intensity about o hundred times that commonly used f aerial disinfection produced no better r sult. The authors point out, however, th against particles expelled in sneezing, t disinfectants are rapidly effective.

As the normal use of the handkerchi is more common than sneezing, it is pr bably the most important single action, t workers suggest, except bed-making, causing contamination of air with org nisms from the respiratory tract. Althou larger particles from coughing, nose-blo ing or sneezing, etc., may have an equ importance in the spread of respiratory i fection, the facts brought to light in t

ecent work have a direct bearing on sick-oom and ward routine, and seem to point n particular to the great advantage bac-eriologically of the use of handkerchiefs f paper tissue, etc., which may be burnt fter use.

A Task for Scholarship

A RECENT article on the Antidotarium of Nicolaus (*C. & D.*, June 26, p. 837) raises y implication two questions. The first uestion is the relation between this for-nulary (of which there was a longer ver-ion of about 140 formulas and a shorter ne of about fifty) and a later formulary ssued under the name of another Nicolaus. The first author or compiler is believed to ave taught in the School of Salerno dur-ng the earlier half of the twelfth century, he second to have written in Alexandria hortly before the year 1300. The latter s commonly known as Nicolaus Myrepsus. The "History of Pharmacy," by Dr. Edward Kremers and Dr. George Urdang, contains (p. 29) a brief mention of this 'somewhat complicated question," and ists, in addition to the two formularies named, the "Dispensatorium ad Aroma-tarios" of Nicolaus Præpositus, written in France about 1500. The third author is of some interest in this connection as, accord-ing to Hirsch ("Biographisches Lexicon der Hervorragenden Aerzte aller Zeiten und Völker," 1932) his "Medicæ Artis Principes" succeeded Nicolaus of Salerno's Antidotarium as the standard formulary for medical practitioners in Paris before 1638, when the first Paris Codex appeared. Any competent student who will undertake to collate a sufficient number of the many manuscripts of these antidotaria will have a laborious task and will earn the grati-tude of pharmacists in all countries who value historical research. The large number of authors bearing the name Nicolaus in the Middle Age raises the presumption that some of them adopted it as a passport to a good circulation. The Glossary of Du Cange notes about 100, and Chevalier's "Répertoire des Sources Historiques du Moyen Age" (1907) names about 350.

The second and more important ques-tion about this classic is its sources. By the time it was written, the School of Salerno was well established as the leading institution of the kind in Europe; and if a formulary for general use by physicians and dispensers was thought desirable, Salerno was the place where it would be sought. Nicolaus the First, as he may be called, had ample material for selection. Avicenna is estimated to have left behind him about a million words: Galen, Celsus, Rhazes and Mesue the Younger (the actual existence of the last-named is doubted) were also known as authorities. The com-pilation of the Antidotarium could there-fore have been carried out by any suffi-ciently qualified graduate of the School without devising new formulas. On the other hand, original or supposedly original combinations of drugs would be likely to find a place in the new manuscript.

Production of Insulin

AN investigation recently undertaken by a special commission of the World Health Organisation indicates a possible world shortage of insulin. Estimated insulin con-sumption of forty-four counties, excluding that of the U.S.A. and Canada, is about 4,000 million units per annum. The prin-cipal producers are the U.S.A., the U.K. and the Netherlands, but it would appear that the first-mentioned country with an enormous home-market demand is not in a position to export any quantity. Further, it is considered unlikely that the amount of animal pancreas normally used in insulin production can show an immediate prospect of increase, and greater output of insulin must depend largely on a more effective utilisation of supplies of the basic material at present available. In order to encourage collection of pancreas, subsidies are being granted in some countries.

In a letter to "The Times" of July 23, Mr. John C. Hanbury, chairman, British Insulin Manufacturers, expresses disagree-ment with the view that the United States has only a small exportable surplus, as British insulin manufacturers are continu-ally meeting active American competition in export markets. Research in Britain has led to increased yields of insulin and the manufacturers' teams are working together to achieve even better results. Mr. Hanbury states "our production facilities alone could provide at least double the present quantity of insulin produced if the demand for it should arise."

INSECTS AND INSECTICIDES

By M. J. Way, B.A.

(Entomologist, Insecticides Department, Rothamsted Experimental Station

1.—Insect Morphology

IT is often said that insects are man's most serious rival in the animal kingdom. In many respects the statement is true, since insects have successfully colonised more of the earth's surface, except for the sea, than any other class of animals. On land, in the soil and above ground, practically all plants and animals are subject to attack by one species of insect or another. Insects are also their own enemies—the verse about "big fleas having little fleas" being true for practically all insect species. All this is the result of the evolution of a large number of different insect species each of which is structurally and physiologically adapted to live under limited climatic and geographical conditions, and usually also, on a particular type of food. Insects comprise about 70 per cent. of the known species of all animals and, although about 500,000 species have been described, it is probable that some two million remain undetermined.

The class *Insecta* belong to the phylum *Arthropoda* which includes also the *Crustacea* (crabs and lobsters), *Arachnida* (spiders and mites) and other minor

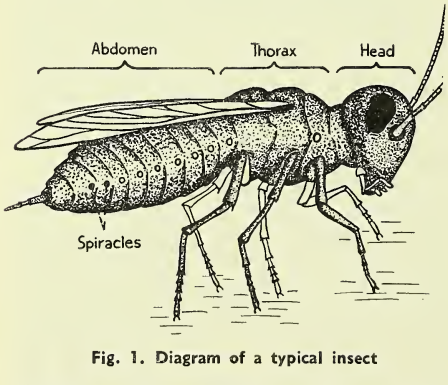


Fig. 1. Diagram of a typical insect

groups such as the centipedes and millipedes. All are characterised by the possession of a chitinous external skeleton, called the cuticle, which is divided into segments, a varying number of which bear paired jointed limbs. The muscles are attached to the exoskeleton and work on it in a similar fashion to the muscles attached to endoskeleton of vertebrate animals.

Insects are distinguished from otl Arthropods by the possession of a disti head bearing the sense organs, mouth a mouthparts, a thorax of three segme with three pairs of limbs and genera

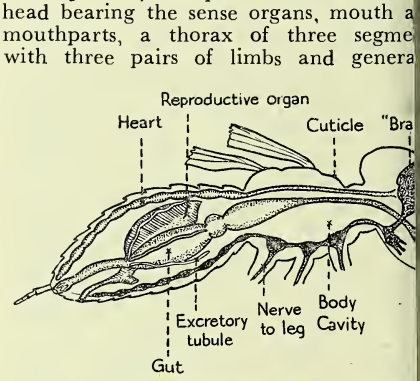


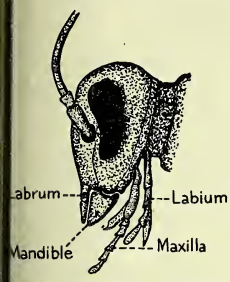
Fig. 2. Internal structure of an insect

two pairs of wings and an abdomen of to ten segments which are generally lim less. Fig. 1 (opposite) shows a typi insect. The spiracles shown in most the segments are the external openings air-filled tracheæ which ramify through the body as a system of fine tubes car ing oxygen direct to the tissues, and in t respect have a similar function to blood system of vertebrate animals. T possession of this type of respirat mechanism is typical of insects.

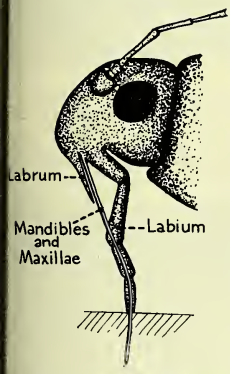
Internal Structures

Internally, as shown in Fig. 2, the m obvious structure of the typical insect the gut which is divided into fore, m and hind guts, roughly equivalent in fu tion to the stomach, mid intestine and hi intestine of vertebrates. The nerv system consists of an association of gang or nerve centres in the head—the called "brain," connected to pair ganglia in each segment from which fi nerves pass to the various tissues. T whole body cavity contains blood which kept in motion by a dorsal heart collecti blood posteriorly and pumping it f ward into the head region. Excreti tubules, the Malpighian tubules, dischar into the hind gut and have a functi similar to that of the vertebrate kidne

onsiderable variation occurs in the ructure and extent of development of e various parts in different insect species. louthparts, for example, show an extra-dinary diversity in structure, related to e methods of feeding that various insects have adopted. In the generalised omnivorous insects, such as the cockroach, the mouthparts consist essentially of an upper lip, termed the labrum, a pair of mandibles biting laterally and a pair of maxillæ which together with a lower lip or labium, serve to hold food while it is being chewed by the mandibles (see Fig. 3a). Sucking insects show extraordinary modification of these structures. In *Aphidæ* (greenflies), for example, the mandibles and maxillæ are elongated and become stylets enclosing a pair of canals leading to the mouth. The stylets are inserted into plant tissues, digestive enzymes pass down one of the canals and the digested plant cell contents drawn up the other canal into the mouth and gut (see Fig. 3b).



g. 3a. Head and Mouthparts of a cockroach



ig. 3b. Head and mouthparts of a greenfly

Classification

Classification involves the subdivision of the class *Insecta* into orders and families each of which is characterised by particular specialisations. Of the many orders of insects only those of importance to man are discussed in this series of articles, and though the injurious insects are to form the main subject, the beneficial insects cannot be left unmentioned.

The most primitive insects are wingless and include a few species injurious to man, notably the silver fish which is destructive to dried foods, paper, etc. The more highly developed winged insects (a number of which, e.g. lice, bed bugs and worker ants, have become secondarily wingless) are divided into: 1. The *Hemimetabola* in which the young stage, the nymph, is essentially similar to the adult except in the absence of wings and the immaturity of sex organs; and 2. The *Holometabola* in which the larva (the young, generally inactive feeding stage) has become so different from the adult (the active dispersing and reproducing stage) that an intermediate resting stage, the pupa or chrysalis, is required. During this stage the larval structure is broken down and the adult structure built up. A brief classification of the important families is given in the table below:

HEMIMETABOLA

- Order *Orthoptera*
  - Cockroaches
  - Grasshoppers
  - Locusts
- Order *Anopleura*
  - Lice
- Order *Hemiptera*
  - Bed bugs
  - Capsid bugs
  - Whitefly
  - Greenfly and blackfly
  - Mealy bugs

HOLOMETABOLA

- Order *Lepidoptera*
  - Cabbage caterpillars
  - Cutworms
  - Codling moth
  - Clothes moths
- Order *Coleoptera*
  - Colorado beetle
  - Wireworms
  - Flea beetle
  - Granary weevil
  - Ladybird beetle (beneficial)
- Order *Hymenoptera*
  - Bees and wasps } (beneficial)
  - Insect parasites } (beneficial)
- Order *Diptera*
  - Gnats and mosquitoes
  - Tsetse fly
  - Carrot fly
  - Cabbage root fly
  - Predatory hover flies (beneficial)

Mention should be made of such pests as the mites causing scabies and the fruit tree red spider which are sometimes classified as insects but are actually relatives of the spiders, i.e., *Arachnida*.

In many countries considerable damage is done to man's property by such insects listed in the table as locusts, and to man himself by the mosquitoes and tsetse flies which act as vectors for diseases such as malaria and sleeping sickness. In this country our major pests are (1) members of the *Hemiptera*, particularly *Aphidæ*

(greenfly and blackfly) which apart from causing injury themselves are carriers of destructive virus diseases, notably of potatoes and sugar beet; (2) *Lepidoptera*—cabbage caterpillars, a number of species attacking fruit trees, and clothes moths; (3) *Coleoptera*—wireworms, flea beetles and a number of pests which attack stored food products. Among the *Diptera* such insects as carrot fly, cabbage root fly and various animal parasites may cause serious harm to crops and farm animals.

Significance of Pest Enemies

The occurrence of such pest insects is almost entirely the result of man's activities in disturbing the delicate balance that exists between species under natural conditions. Acres of suitable food plants, and granaries and stores of food-stuffs provide ideal conditions for the multiplication of certain insects at such a rate that natural controlling influences are unable to keep them in check. When those insects become sufficiently numerous to cause economic damage they are classified as pests. Even under conditions of food plenty, however, many controlling influences are at work as has been shown by a study of the large cabbage butterfly. The female of this insect lays some 300-400 eggs. 50 per cent. of these may be destroyed in the egg stage, mainly by beneficial parasitic and

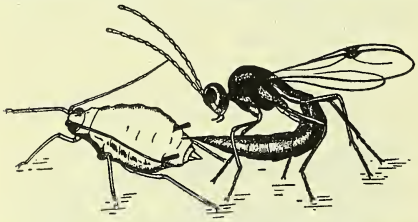


Fig. 4. Insect parasite laying eggs within a greenfly host

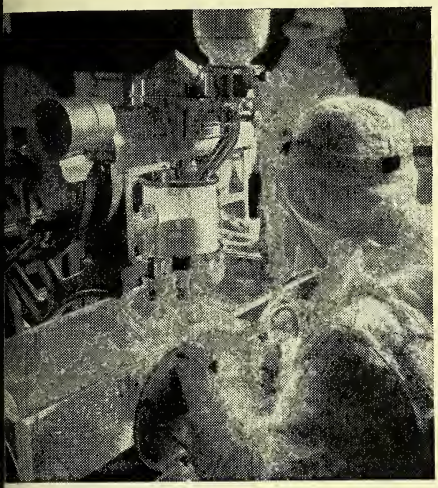
predatory insects, and over 25 per cent. killed in the larval and pupal stage by further beneficial insects. Of those left all but about 1 per cent. may be killed by predatory mammals and birds, and by parasitic fungi. Note the important part that is played by parasitic and predatory insects. As examples of predators, a ladybird may consume 800 greenfly during a lifetime, and a hover fly larva has been observed consuming aphids at the rate of one per minute. Parasites lay their eggs in the eggs, larvæ, or adults of other insects. The parasite grubs live within or upon the living hosts until ready to pupate, at which stage the host is killed. Among the most important parasites are those belonging to the order *Hymenoptera*. One of these is shown in Fig. 4 laying within a greenfly host.

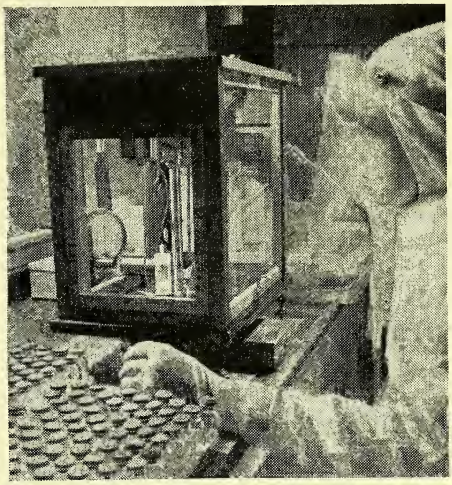
The importance of insect parasites and predators to the balance of the insect population requires emphasis also in order to remind people that insecticides do not conveniently leave beneficial insects unharmed whilst destroying the pest; for example, in some countries lead arsenate used to control codling moth has led to an increase of the pest due to inefficient control combined with considerable destruction of codling moth parasites. The use of DDT to control other fruit insects has led to an alarming increase in fruit tree red spider, which is resistant to DDT whereas its predators are highly susceptible. These examples serve as a warning against the careless use of insecticides.

Untold Damage

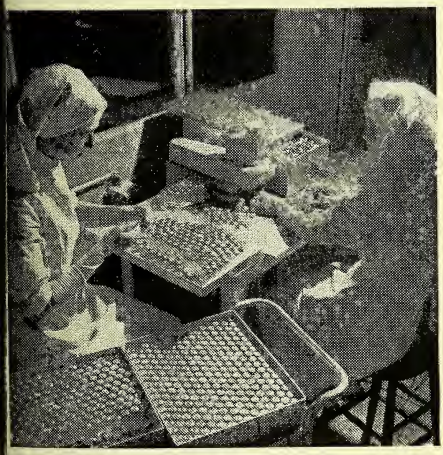
Man has weighed the scales so heavily in favour of the pest that in relatively few cases have insect parasites and predators proved capable of complete control. In England, although parasites exercise a considerable destruction of pest insects and provide a check which, if removed, might well prove disastrous, they are generally incapable of keeping pace with the pests, and only towards the end of the summer season do they begin to exercise practically complete control. By this time the pests may have caused the damage and, therefore, other control measures by man are required. Crop rotation as practised in England is of great importance in preventing a build-up of pests. Despite natural and man-made controlling influences, however, pest insects flourish. It is estimated that about 10 per cent. of the world's crops are destroyed by insect pests while much damage must be caused of which man is unaware, soil counts, for example, show that grassland often contains at least one million wireworms to the acre. Apart from the damage to man's property, untold damage and disease is caused to man himself. In practically all wars up to 1939, for example, bubonic plague and other diseases carried by flea and lice have caused more deaths than those caused by wounds. It is with good reason that the discovery of such insecticides as DDT is considered among the most important of the present century.

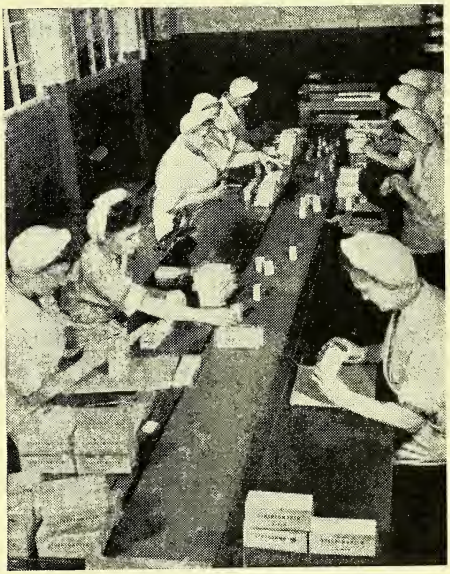
BRITISH-MADE STREPTOMYCIN





Filling and packing in the works of Glaxo Laboratories, Ltd.





MANUFACTURE of streptomycin by the deep fermentation process commenced recently at the Castle Barnard, co. Durham, works of Glaxo Laboratories, Ltd. Plans are in hand to extend manufacturing operations to a new plant under construction at Ulverston, Lancs. The filling and packing operations are carried out at the company's laboratories at Greenford, Middlesex, and the illustrations, from photographs taken at Greenford, show: Top Left: A close-up of the operation of vial filling under aseptic conditions. Top Right: Weight of contents of the vials being checked by a worker clad in a sterile gown and wearing surgical mask and face shield. Bottom Left: Operatives spinning metal seals on to the closed vials. Bottom Right: The final stage of handling vials in the packaging department.

MEDICAL ABSTRACTS

Penicillin for Diphtheria Carriers.—Encouraging results from penicillin administered locally in the treatment of carriers of virulent diphtheria are reported by Levy, Dixon ("Journal of American Medical Association," 1948.136.855). Administration of penicillin intravenously is of little value, but good results have been noted when it is administered either as a lozenge under the tongue or as a spray.

Streptomycin with Sulphadiazine.—Harris and Jett ("Journal of the American Medical Association," May 22, p. 363) describe a case of chronic brucellosis successfully treated with streptomycin and sulphadiazine. Initial daily doses of 4 gm. streptomycin and 6 gm. sulphadiazine were reduced after five days to 2 gm. streptomycin daily for three days, and 1 gm. daily for the remainder of the period of nineteen days. The dosage of sulphadiazine was sufficient to keep the blood level between 5.9 and 6.3 mgm. There were no toxic effects from streptomycin and the patient remained without fever or symptom for four months after treatment. At that stage blood culture for brucella was negative.

Classifying Pains.—Keele ("Lancet," July 3, p. 6) describes a system of classifying pain which has been designed to help in reducing to a minimum the inaccuracies involved in a patient's description. The following definitions of types of pain are suggested:—

"*Slight*".—Pain that results in awareness without distress.

"*Moderate*".—Pain sufficient to distract attention from a routine occupation such as reading or housework.

"*Severe*".—Pain that fills the field of consciousness to the exclusion of other events. Visceral reflexes may occur.

"*Agonising*".—Pain with motor effects (e.g., restlessness followed by the syndrome of shock).

By a suitable use of these definitions psychogenic and organic pain may, the author suggests, be differentiated.

Nitrogen Mustards in Cancer.—Discussing the use of nitrogen mustards in the treatment of neoplastic disease, Rhoads ("Journal of the American Medical Association," January 31, p. 305) states that, since 1944, over 5,000 treatment units of these compounds have been distributed to 126 institutions, and over 1,100 reports have been obtained. About 70 per cent. of patients with Hodgkin's disease ha shown remissions lasting about one mon With early and moderately advanced m loid leucæmia, full remissions can be duced, but they tend to be of shorter du tion than those produced by rœntgen ir diation. Use of the drug in lymphosarco and lymphatic leucæmia is not recomme ded owing to toxic reactions. Nitrogen m tards appear to be of little use in ac leucæmia, cancer of the gastrointesti tract, oral cavity, breast, and genitourina systems. Temporary regression of can of the lung can be attained in about 50 p cent. of cases.

CORRESPONDENCE

Training for Counter Assistants

SIR,—Returning to retail trade after interval of some years I find a noticeab absence of well-trained unqualified coun assistants. In pre-war years I was t manager of a pharmacy employing in t shop and stockroom about thirty assistan Each of the departments of the sho toilet and sundries, surgical, photograph etc., with the exception of the drug count was in charge of an assistant, "unqu fied," but highly-skilled in salesmanshi and having an excellent knowledge their particular section of the trade. The employees in many instances had receiv some training at "schools" run by man facturers of the products they had char of. It appears that the position h changed radically. Most of the form staffs of pre-war days have left the trad Retail shops with a six-day week and a day Saturday no longer attracts t right type of girl who can find oth employment of a less-exacting and possib more lucrative kind. The art of salesma ship has declined until it is almost no existent. New entrants into retail pha macy no longer have adequate trainin The need for supervision of these u trained hands is likely to increase. Mea while, with the growth of dispensing, t pharmacist's attention will be focused to greater extent on professional duties. T solution appears to be, to have, eith well-trained employees, or a non-pharm cist manager for the commercial side the business. If the former alternative preferred, could not the N.P.U. undertak the organisation of a staff-training cours or courses for assistants?

SHOPMAN.

I.G. FARBEN ORGANISATION

HE assets of I.G. Farben and its con-olled companies in the Anglo-American nes are to be put under a new bipar-te and bizonal control administration. nder the provisions of the new order tablishing the bipartite Farben control, new organisation will be set up, con-sting of the two present Anglo-American G. Farben control officers and their puties, as a branch of the Bipartite ecartelisation Commission. The Ger-an bizonal executive will establish a Ger-an organisation to assume the custody nd administration of the Farben assets in e two zones which are now under the ontrol of the United States and British G. Farben control officers. The new erman organisation will consist of not less an six and not more than eight Germans.

The new organisation, to be known as e Bizonal I.G. Farben Dispersal Panel FARDIP), will be charged with dividing ny Farben properties not already so divided, into separate, independent, and competitive operating units where the properties can be economically and logically established. It will install German trustees for each of the units. Each trustee will be directed to organise a corporation for each such unit, and title will be transferred first to the trustee and then to each corporation as it is organised. Other corporations are to be established to hold and dispose of assets of the Farben properties which are not commercial or production elements. Stock in these new corporations will be disposed of under Fardip direction in co-operation with its Allied opposite number. Fardip will also dispose of assets formerly owned by I.G. Farben which are of a non-commercial nature or are unnecessary for the operations of the independent units. A separate group of directors is to represent the interests of creditors and stockholders of Farben companies.

COD-LIVER OIL PRODUCTION

RITISH cod-liver oil producers state that utput has now returned to normal and vill probably increase so long as the need nd market for fish holds. German pro-luction, so far as the circumstances of that ountry permit, is likely to be resumed ut the home demand and need for it may xceed supplies for a long time. In 1947 Norway had the highest production in her istory with an output of approximately 0,000 tons, but in the current season, rom a variety of circumstances, the figure as sunk to about the normal total of etween 5,000 and 6,000 tons. The only ther two significant production areas are Newfoundland and Canada. In the former ountry there is an old established cod-liver il industry, but Canada is a new producer. So far as the latter country is concerned, the difficulties of the dollar situation, and the big demand on the American continent itself, are significant factors in the present position. Taking the situation as a whole it would appear that the world's production of cod-liver oil today is about equal to that of 1938, but the public knowledge and appreciation of the value of the oil, and the demand for it, has increased substantially. This applies to the use of the oil not only in human nutrition, but also for veterinary use.

Prices throughout the last decade fluctuated violently. During the war period, fully refined medicinal oils of Icelandic origin reached a record figure of 22s. 6d. per gall., but since that date there has been a steady reduction to present prices. A review of the present situation seems to indicate that these prices may be reasonably steady for some considerable time. There are a great number of factors involved, but the outstanding one is that cod-liver oil is essentially a by-product of fishing. World scarcity of food means a steady and consistent demand both for the fish of the arctic and sub-arctic fishing grounds, and this will ensure steady supplies of cod-liver oil. On the other hand, the value of cod-liver oil itself as a food and as one of the richest sources of vitamins A and D together, are factors which are giving rise to ever increasing demands both for home and export.

COMING EVENTS

Wednesday, August 18

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY. Meeting at Shaw Hill Golf Club.

Thursday, August 19

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY. Walk in Epping Forest, assembling Crown Hotel, Loughton, at 3 p.m. Tea, 5.30 p.m. (2s. each), followed by a meeting at 6.30 p.m. at Wilfrid Lawson Hotel, Woodford Green, Essex. Mr. F. C. Wilson on "The National Health Service."

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, August 11

THE markets generally have continued quiet during the past week, the holiday mood still prevailing. In PHARMACEUTICAL and FINE CHEMICALS, home-trade business has been fair; supplies of most products are now satisfactory and deliveries against contracts are regular. The export trade is still maintained at a high level in face of increasing competition. Price changes have been confined to a reduction of threepence per lb. in the rates for SODIUM LACTATE.

Activity in the BOTANICAL DRUGS market has been slight and most articles are at former prices. Good supplies of new-crop Belgian CHAMOMILE FLOWERS should be arriving shortly; prices are expected to be in the region of 4s. to 4s. 6d. per lb., duty paid. There is little Portuguese ERGOT now available on spot and the commodity remains firm. New-crop for shipment is quoted in different quarters from 4s. 1d. to 4s 6d. per lb., c.i.f., but there are reports that the quality of parcels offered by some shippers is low owing to an admixture of old material with new. Business in IPECACUANHA has been small and the market is steady. There have been very few inquiries for SENEGA although it is now evident that replacements of stocks from origin will be difficult to obtain. A good entrepôt business has been done in MENTHOL and it is thought that in bond stocks have been greatly reduced. Demand from home consumers is relatively lacking and prices are steady. CARDAMOMS are firmer forward, with c.i.f. quotations for Aleppy seeds and Aleppy greens higher than those for spot goods. Business in WAXES has been slow but more interest is now being displayed in CARNAUBA WAX owing to the Brazilian decision to fix floor prices; spot quotations are higher reflecting the new position at origin.

Trade in ESSENTIAL OILS has been slow and there have been few changes in prices. LEMONGRASS is a little easier on spot although the forward market is firm.

U.S. Drug and Chemical Report

New York, August 6

TRADING has been slow and the more important items have remained quiet on the FINE CHEMICALS and DRUG markets over the past week. Price movements were recorded in CITRIC ACID—a 2½ cents per lb. advance—and citric acid derivatives were also marked up. Granular citric acid now costs 25½ cents per lb., powdered material, 26 cents, and crystals, 28½ cents, while POTASSIUM CITRATE is quoted at 37½-45½ cents per lb. and SODIUM CITRATE at 21½-26½ cents per lb. It is generally felt that the market for MENTHOL will decline further before normal trading activity is resumed in the autumn; Brazilian material is currently offered at $9.55 per lb., but large orders are said to be available at $9.50. Japanese menthol afloat has been reported at $9.30 per lb.

Medicinal and pharmaceutical preparations imported into the U.S. in April were valued at $587,994, a 73 per cent. advance over the preceding month. The receipt of 162,400 oz. of QUININE SULPHATE from Holland, valued at $117,981, and 38,074 lb. of Brazilian menthol ($273,681), contributed considerably to the overall increase. A total of 222,760 lb. of SULPHONAMIDES was shipped abroad in April compared with 216,110 lb. in the preceding month.

PEPPER was the high light of the CRUDE DRUGS, GUM and SPICE markets last week, with the black variety advancing from 0.58½-0.60½ cents per lb. to 0.70-0.72 cents; white produce was marked up 2 cents per lb. at 74-75 cents per lb. CLOVES, both Zanzibar and Madagascar varieties, were higher in price together with East Indian NUTMEGS. For the first time in many weeks, price changes on the drug market were mainly upwards and not downwards. Imports of crude drugs in April at 1,328,738 lb. were 20 per cent. below the volume of March receipts.

Price movements on the ESSENTIAL OILS market last week were relatively few. Demand continued at a very low level with actual purchases again confined to immediate requirements.

Pharmaceutical Chemicals

ACETOMENAPHTHONE. — Quotations are from 1s. to 1s. 6d. per gm., as to quantity.

AMIDOPYRINE.—In short supply; prices are between 50s. and 60s. per lb.

ATROPINE.—Makers' rates per oz. are: ALKALOID, 41s. 3d.; 4-oz., 40s. 9d.; 25-oz., 40s. 3d. SULPHATE, 32s. 9d.; 4-oz., 32s. 3d.; 25-oz., 31s. 9d.

BORAX.—Makers' current prices are: B.P. quality, granulated, £38 per ton; crystal, £39; powder, £39 10s. Commercial grades, £8 per ton less. Packed in 1-cwt. bags, delivered carriage paid in Great Britain in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

BUTYL CHLORAL HYDRATE. — Current prices are from 17s. 6d. per lb. upwards.

CAFFEINE.—Makers' prices per lb. are: ALKALOID, anhydrous, from 34s. 6d. to 39s. 6d., and B.P. from 32s. 6d. to 37s. 6d.;

TRATE, B.P.C., 21s. to 26s.; SODIUM NZOATE, B.P., 21s. 6d. to 26s. 6d.; DIUM SALICYLATE, B.P.C., 22s. 3d. to s. 3d.; SODIUM IODIDE, 26s. to 30s. sorted contracts may be booked (excluding caffeine sodium iodide) for not less an 5-cwt. lots over six months. Containers: 14-lb. tins and upwards free; cwt. kegs or cases, free for export, home ade charged extra (returnable). Carriage id on net invoice value of £20 or more.

COCAINE.—Rates per oz. are as follows: LKALOID, CITRATE, and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.; ½-oz., s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; oz., 54s. 3d.; 16-oz., 53s. 9d.; tins, -oz., 53s. HYDROCHLORIDE, NITRATE d SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz., s. 6d.; ½-oz., 50s.; 1-oz., 48s. 6d.; 4-oz., s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, -oz., 46. The quotations include cost of ntainers.

CODEINE.—Prices are unchanged. Current rates per oz., in the home market, are: LKALOID, ½ oz., 51s. 9d.; 1 oz., 49s. 3d.; oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. YDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s.; oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., s. 6d. PHOSPHATE, ½ oz., 40s. 9d.; 1 oz., s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., s. 9d. HYDROBROMIDE and IODIDE as LKALOID; SULPHATE as HYDROCHLORIDE.

DIGITALIN, B.P.C.—Current quotations re from 9s. to 11s. 6d. per gm.

ETHER.—Makers' prices per lb. are: NÆSTHETIC, 1 cwt., 2s. 10d.; 72-lb., s. 11½d. B.P., 5 cwt., 2s. 1½d.; less, s 3½d. TECHNICAL, 1½d. per lb. less than .P. The foregoing rates are for ether acked in winchesters. In 1-lb. bottles rices are 2½d. per lb. more.

HORMONES. — PROGESTERONE, B.P., is uoted at 49s. 6d. per gm. and ŒSTRONE, .P., at £16 10s. to £21 per gm.; ŒSTRAIOL BENZOATE is quoted at £22 10s. per gm. TILBŒSTROL. — Quotations for this anaogue and its DIPROPRIONATE are from s. 10½d. to 2s. 6d. per gm. HEXŒSTROL is riced from 2s. 3d. to 2s. 6d. per gm.; IENŒSTROL, from 3s. 3d. to 4s.

HYDROCYANIC ACID.—B.P.C. (Scheele's) s quoted at 1s. 5½d. per lb. and B.P. at s. 1½d. per lb.

HYPOPHOSPHITES.—Makers' rates per lb. or 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. HYPOPHOSPHORUS ACID in quantities of 6 Winchester quarts is 6s. 2d. per lb.

ICTHAMMOL, B.P.—Supplies in drums are uoted from 3s. 6d. to 3s. 8d. and upwards; n 28-lb. tins, 3s. 9d. to 3s. 10d.; in 1-lb. tins, 4s. 6d. to 5s. per lb., as to seller.

ISOPROPYL ALCOHOL. — Makers quote 15s. 3d. per gall. for small lots.

LACTATES.—Supplies are adequate. Current quotations are as follows: CALCIUM, 2s. 2½d. to 2s. 10½d.; CALCIUM SODIUM, somewhat firmer at 3s. 3d. to 3s. 11d.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb.

MERCURY SALTS.—Makers' rates per lb. for 1-cwt. lots are: AMMONIUM CHLORIDE, B.P., lump, 7s. 8d., powder, 7s. 10d.; YELLOW OXIDE, B.P. and RED OXIDE, B.P.C., 8s. 4d. BICHLORIDE, B.P., lump, 7s., powder, 6s. 5d.; MERCUROUS CHLORIDE, B.P., 7s. 10d. Quotations for small quantities of MERCURY WITH CHALK, B.P., are at 4s. 9d. for MERCURIC CYANIDE, 18s. 9d., and for OLEATE, B.P., 5s. per lb.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

PHENOBARBITONE.—Manufacturers' prices are 40s. 6d. per lb. for 7-lb. lots and 39s. for 28-lb. lots with prices for other quantities in proportion. The corresponding rates for the SODIUM SALT are 43s. and 41s. 6d.

QUININE.—Makers' rates (per oz.) to distributors are given below; additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYLSALICYLATE, 6s. to 6s. 6d.; BISULPHATE, and SULPHATE, 3s. 7d. to 4s. 1d.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d. QUININE AND UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

RESORCIN.—Continues in short supply. Current prices are at from 10s. 6d. to 12s. 6d. per lb., according to quantity.

SALICYLIC ACID.—Makers' quotation for 1 cwt. is 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.): 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

SALICYLSULPHONIC ACID.—Makers' quotation for this reagent is 15s. per lb.

TERPINEOL.—Prices for B.P. grade are from 3s. 3d. to 3s. 9d. per lb.

ZINC SALTS.—Prices per lb. are as follows: ACETATE, B.P.C., 3s. 9d. to 4s. 1d.; CARBONATE, B.P.C., from 2s. to 2s. 6d.; CHLORIDE, B.P. (white), fused, 3s. 4d. to 3s. 8d., stick, 4s. 4d. to 4s. 8d.; IODIDE, B.P.C., 18s. 9d.; OXIDE, B.P., 11d. to 1s. 2½d., prepared from carbonate, 5s. 6d. to 6s.; PERMANGANATE, B.P.C., 9s.; SULPHATE, B.P., 44s. 6d. per cwt.; powdered, 51s. 6d. to 65s. 6d. per cwt.; exsiccated, 10d. to 1s. 1½d. per lb. The above price ranges are according to quantity.

Crude Drugs

ACONITE.—Indian is steady at 300s. per cwt. on the spot. Inquiry has been lacking.

AGAR.—Japanese strip is offered at from 17s. 6d. to 18s. 6d. per lb., duty paid; forward, 15s. to 16s., c.i.f.

ALOES—Cape is quoted at 120s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes is quoted at 210s. per cwt.; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

BALSAMS.—*Canada* is easier at 19s. per lb., spot. Para *Copaiba*, soluble, is valued at 5s. per lb., spot. *Peru*, San Salvador, 5s. 6d., duty paid. Prices of Tolu are lower at 17s. 6d. per lb.

BAY LEAVES.—Quotations are unchanged at 11d. to 1s. per lb., duty paid.

BENZOIN.—Prices of Sumatra block on the spot range from £15 to £17 per cwt., as to quality.

BUCHU.—Business has been slow. New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

CAMPHOR.—Chinese tablets offered at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

CANTHARIDES. — Spot quotations for Chinese are from 9s. 6d. to 10s. per lb., duty paid.

CARDAMOMS. — Mangalore half-bleached A's are 9s., spot; B's, 8s., seeds, 7s. 9d. Aleppy seeds, 8s. 9d., spot; 9s., c.i.f., per lb. Aleppy greens, 7s., spot; 7s. 3d., c.i.f. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—Quiet. Spot quotations are from 200s. to 240s. per cwt.; new-crop forward is valued at 200s., duty paid.

CASCARILLA.—Quiet. Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d.

CLOVES.—Zanzibar on spot is quoted at 9d. to 9½d. per lb.; shipment, 1s., c.i.f. Madagascar, shipment, 7½d., c.if. Penang, on spot is quoted at from 2s. 10d. to 3s. per lb.

COD-LIVER OIL.—Prices are unchanged. British-produced oil of B.P. quality is quoted from 12s. per gall., delivered in the United Kingdom.

ERGOT.—Dealers are asking 4s. 5d. for Portuguese on spot; shipment, 4s. 4d., c.i.f. Russian is quoted at 4s. 6d., spot.

GAMBOGE.—Continues quiet. Siam pipe, spot, £50 per cwt., duty paid.

GUM ACACIA.—Steady. Kordofan cleaned sorts, offered at 65s. per cwt., ex store, London; shipment, 59s., c.i.f. Bleached No. 1, 135s., ex store; to arrive, 120s., c.i.f. Talha, 45s., ex warehouse; to arrive, 42s., c.i.f.

RHUBARB.—Chinese rough-round is offe ing at from 4s. 3d. to 4s. 9d. per lb., sp Wormy material is obtainable down 2s. 6d. per lb.

SANDARAC.—New-crop on spot is offer at 5s. 2d. to 5s. 6d. per lb.; old-cr 4s. 9d. to 5s. 2d., ex store.

SEEDS.—ANISE.—Cyprus is quoted 1s. 6d. per lb., and Turkish at 1s. 5½d. p lb., duty paid, both spot London. CA WAY.—Dutch quotations are unchanged 105s. to 107s. 6d. per cwt., duty paid, sp London. CELERY.—Indian is offered 1s. 3d. per lb., spot London or Liverpo No business passing. CORIANDER.—Arge tine is quoted at 42s. 6d. per cwt., du paid, spot London; splits offered at 32s. 6 per cwt., spot London, duty paid. CUM —Indian, on spot, quoted at 205s. p cwt.; Cyprus, spot London, is 212s. 6d. p cwt. DILL.—Indian is unchanged 47s. 6d. per cwt., spot London, a 46s. 6d. per cwt., ex store Liverpo FENNEL.—Indian is quiet and unchang at 72s. 6d. per cwt., ex wharf London, a 71s. per cwt., ex store Liverpool. FEN GREEK.—Market remains firm; Indian, 5 per cwt. quoted, spot London or Liverpo Morocco for shipment is 54s. per cwt., c. London, for August-September shipment.

SENEGA.—Spot offers are from 10s. 6 to 11s. per lb.; forward, 9s. 6d., c.i.f.

SHELLAC.—Spot quotations, ex wa house, London, F.O.T.N. pure, 325s.; F. Standard 1, 335s.; fine orange, 350s. 390s. per cwt.

STYRAX.—Supplies on the spot a offered at 7s. 9d. per lb., duty paid.

TONKA BEANS.—Frosted Pará on t spot is quoted at 5s. 6d. per lb.

TRAGACANTH.—Quiet. Selected wh ribbon, spot, £100 per cwt.; other wh grades, from £55 to £97; pale leaf, £35 £50; amber, £23 to £33; red, £14 to £2 hoggy, £5 to £11. June imports totall 1,113 cwt. (£23,392).

WAXES. — Business has been sma BEES'.—Spot offers of Dar-es-Salaam a at 330s. per cwt.; shipment, 302s. 6 Lindi is steady on spot at 325s.; shipme is firm at 295s. per cwt., c.i.f. Bengue is quoted at 345s. per cwt., duty paid; bond, 315s.; shipment, 300s., c.i.f. CAND LILLA.—Quoted on spot at 385s. per cwt forward, 375s., c.i.f. CARNAUBA.—Firm Prime yellow on spot is quoted at 665s shipment, 650s., c.i.f., nominal. Fat grey: 440s. per cwt., spot; shipme August-September, 435s. Chalky gre 415s., spot. MONTAN.—Steady. Reibe is offered on the spot at 300s. per cwt. a Czechoslovak crude at 265s. OURICURI.- 8 per cent., spot, 375s. per cwt.; 1 p cent., spot, 410s. SPERMACETI.—Steady 3s. 6d. per lb., spot.

Essential and Expressed Oils

ALMOND.—Sweet oil (B.P.) is quoted at . to 9s. per lb., spot; bitter essential oil,)s. to 45s. per lb., as to quality.

ANISE.—Chinese star, in drums, 5s. 6d. r lb.; for shipment, 5s. 6d., c.i.f.

BAY.—West Indian is offered at 7s. 6d. 8s. 6d. per lb. on the spot.

CAMPHOR.—White oil on the spot is ioted at 2s. 9d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 7s. to 40s.; imported, 28s. to 30s. per lb.

CASSIA.—Prices range from 13s. 9d. to 5s. per lb., spot.

CINNAMON.—B.P. oil, 60s. to 70s. per lb. ark oil is available at 12s. per oz. Leaf il, on the spot, 7s. 9d. to 9s. per lb.

CITRONELLA. — Ceylon is offering at s. 6d. per lb., spot, and 3s. 3d.. c.i.f. Java n spot is 8s. per lb; 6s. 3d., nominal, i.f.

CLOVE.—Quotations for English-distilled ud oil are at from 10s. 6d. to 12s. per lb., ccording to quantity.

CORIANDER.—English-distilled is quoted t 260s. per lb. In fair supply.

CUBEBS.—English-distilled is offered at 5s. per lb.

CUMIN.—English-distilled oil is quoted t 75s. per lb.

DILL.—Prices of English-distilled oil are round 75s. per lb.

EUCALYPTUS.—70-75 per cent. (B.P.), s. per lb. for drums, and up to 5s. 6d. for maller quantities; 3s. 8d., c.i.f.

GERANIUM.—Bourbon is offered at from 0s. to 60s. per lb., as to grade.

GINGER.—Prices are from 70s. and upvards per lb., according to grade.

GUAIACWOOD.—Offers are from 18s. to 20s., according to seller.

LAVANDIN.—Spot quotations are from 9s. o 11s. 6d. per lb.

LAVENDER.—French, 38-40 per cent., is uoted at 21s. to 24s., spot; 40-42 per cent., 24s. to 25s. Spanish (spike) is steady at)s. to 11s. per lb., spot.

LEMONGRASS.—Drums are quoted at 5s. 3d. per lb., with up to 6s. 3d. for malls; shipment, 5s. 4½d., c.i.f.

LIME.—Lime is offered at from 27s. to 30s. per lb., according to quantity.

NUTMEG.—English-distilled oil is priced at from 39s. to 40s. per lb.

OLIVE.—Importers' rate is 29s. 8d. per gall. of 9 lb. Wholesalers' prices are: 1 pint. 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; 1 gall, 37s. 6d.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 13s. 6d. per lb., c.i.f.; nominal spot value, 15s. to 16s. Jamaican oil is quoted at 15s. 6d., c.i.f.

PEPPERMINT.—English-distilled "Mitcham," is quoted at 180s. to 225s. per lb.

PIMENTO BERRY.—English-distilled oil quoted at 50s. to 70s. per lb. and upwards, as to quantity and grade.

PINE.—*Pumilionis* is quoted at 18s. to 20s. per lb., spot; *sylvestris*, 12s. 6d.

PINE NEEDLE.—Spot supplies are offered at 19s. to 21s. per lb., for first-grade oil.

ROSEMARY.—Spanish is offered at 7s. 6d. to 10s. per lb., as to quantity and quality.

SANDALWOOD.—English-distilled, in limited supply, is quoted at 75s. to 90s. per lb.

TEASEED.—Quotations for refined oil on spot are from 48s. to 50s. per gall.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 8s. to 8s. 6d. per lb., according to quantity.

VETIVERT.—Nominal spot value, 112s. per lb.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

World Mineral Industries

No. 6—Bromine

THE following corrected table gives principal producers of bromine and their output (in lb.). (See *C. & D.*, July 17, p. 99).

PRODUCING COUNTRY	1938	1941	1944
Palestine ...	1,085,000	1,709,000	1,342,000
France ...	1,715,000	430,000	642,000
Germany ...	(b)3,300,000	(a)	(a)
Italy ...	353,000	(a)	(a)
United States (c)	33,324,116	68,317,019	102,112,462

(a) Information not available. (b) Estimated. (c) Includes bromine content of compounds.

No. 10—Diatomaceous Earth

THE following table gives principal producers of diatomaceous earth and their output (in long tons).

PRODUCING COUNTRY	1938	1941	1944
N. Ireland ...	5,281	15,341	25,408
Australia ...	3,692	5,242	3,605
Denmark (moler) (e)	80,000	60,000	40,000
France ...	12,400	(a)	4,343
Italy ...	5,010	(a)	(a)
Algeria ...	15,048	8,800	226
United States .	(b)83,228	(c)107,292	(d)156,212
Japan ...	21,650	(a)	(a)
Korea ...	4,500	(a)	11,300

(a) Information not available. (b) Average annual production 1936-38. (c) Average annual production 1939-41. (d) Average annual production 1942-44. (e) Estimated.

(*By courtesy of The Imperial Institute.*)

MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available permitted to be used for the purpose.

Supply of Surgical Appliances by Drug Stores.—*E. C. W. C.*—Owners of drug stores are entitled to apply to local Executive Committees to have their names included in the list of suppliers of surgical appliances under the National Health Service Act.

Hand Cleaner.—*H. B.*—Below is the formula of a paste hand cleaner containing soft soap:—

Soft soap	80
Solution of ammonia	5
Oil of turpentine	2½
Powdered pumice	30

Smoke Cartridges.—*E. & S.*—Smoke cartridges suitable for testing drains may be made to the following formula:—

Potassium nitrate	1 oz.
Manganese dioxide	½ oz.
Resin	½ oz.
Asphalt	¼ oz.

Cloudy Ammonia.—*S. C.*—The following formula is known as Martindale's formula for cloudy ammonia: Castile soap, 1.3 dissolved in water, 60, and add:—

Strong soluion of ammonia	27
Lime water	0.6
Tap water	to 100

Tax and the Manufacture of Cosmetics.—*F. H. S.*—Manufacturers of cosmetics and toilet preparations must register for Purchase Tax purposes if the gross takings from sales of chargeable goods exceed £500 a year. Application for registration must be made to the local office of the Customs and Excise.

Lemon Kali.—*A. M. J.*—Effervescent lemon kali mixtures consist essentially of equal parts of tartaric acid and sodium bicarbonate with lemon flavouring, and usually a sweetening agent. A typical formula is as follows:—

Tartaric acid	2 lb.
Sodium bicarbonate	2 lb.
Oil of lemon	2 dr.

Adamses Cream.—*G. C. S.*—The formula for a preparation known as "Adamses Cream" and made to the formula of a staff surgeon in the Royal Navy, is given below:—

Mercury	20
Anhydrous lanolin	30
Chlorobutol (all by weight)	2
Liquid paraffin to (by measure)	100

Anæmia in Young Pigs.—*D. S.*—The rearing of young pigs outdoors usually eliminates nutritional anæmia in young pigs. However, where pasture is not available, young pigs may be dosed with an iron preparation during the second and third weeks of life. A suitable preparation is:—

Iron sulphate	3 dr.
Copper sulphate	1 dr.
Water	to 1 pint

One teaspoonful should be given every other day during the second and third weeks.

Saccharine Tablets.—*A. C.*—The following is a formula and method for making saccharine tablets containing ⅓ gr. saccharine:—

Saccharine	200 grs.
Soda bicarb.	730 grs.
Acacia powder	50 grs.
Talc powder	20 grs.
Die 7/32	For 1,000 tablets

Mix the powders except the talc and pass through a no. 40 sieve. Damp with water, pass through a no. 20 sieve and dry. Pass through a no. 2 sieve and incorporate the talc.

Coccidiosis in Poultry.—*L. S.*—An effective agent for the treatment of cæcal coccidiosis is sulphamezathine. It is usually administered as a 0. per cent. solution which is substituted for drinking water. The solution may be prepared from sulphamezathine powder as follows:—

2½ oz. sulphamezathine powder plus ½ oz. caustic soda are dissolved together in one pint of water: this is the stock solution which must be diluted (2½ fluid oz. of the solution to one gallon of water) when required.

For older fowls it is sometimes more convenient to use the drug as an ingredient of food, ½ oz. of sulphamezathine powder being mixed with every 10 lb. of mash.

TRADE MARKS

(*From "The Trade Marks Journal," July 28*)

"THIOSECONAL"; by Eli Lilly & Co., Ltd., Basingstoke; 658,069. For anæsthetics containing sulphur (5).

Device of pirate holding barrel; by J. W. Green Ltd., Luton; 658,926. For pharmaceutical preparations for human and veterinary use, and infants' and invalids' foods (5).

"DERMOL"; by the Crown Chemical Co., Ltd. Tonbridge; B659,494. For medicated preparations for the treatment of warble fly in cattle (5).

"METHYDIONE"; by British Schering, Ltd., London, W.1; 659,579. For pharmaceutical preparations (5).

"PHENOMEN"; by Lax-Vita, Ltd., London S.W.1; 660,288. For medicated tablets containing phenyl products for human use (5).

"CAMCO"; by Camden Chemical Co., Ltd., London, W.C.1; 660,498. For all goods, excluding medicated paper (5).

"DA-LAY"; by Wilsons Chemical Products, Ltd. London, S.W.4; 661,050. For medicated ointments for human and veterinary use (5).

"ATOMIT"; by O. M. Seman, Ltd., London S.W.7; 661,115. For insect destroying preparations in liquid and powder form (5).

"ORION"; by W. Ottway & Co., Ltd., London W.5; 657,702. For optical instruments and apparatus (9).

Device of a teddy bear; by David Hayward, Ltd. Bloxwich, Staffs; 660,105. For hair, nail and bath brushes (21).

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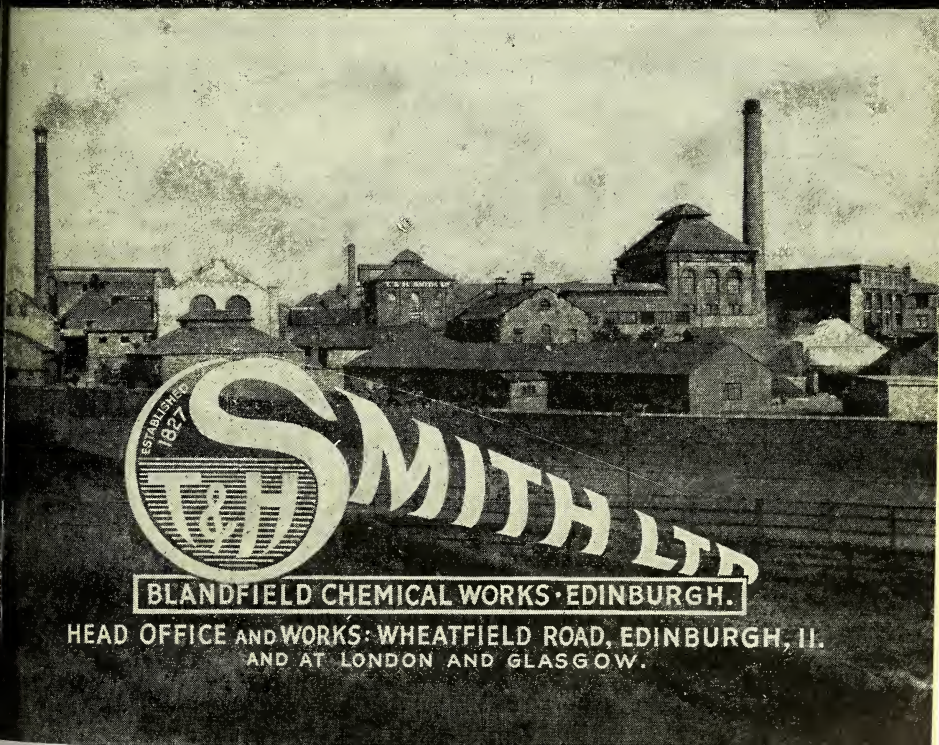

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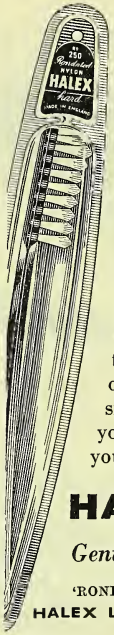

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HALEX

a proved family favourit

'*Rondated*' Halex toothbrus have been tried and found 'wante Everyone likes them for th gentleness to tender gums, for th kindness to the polished surface the teeth. Write now for particu of the plastic display unit specially signed to give a colourful showing your counter to the brush that ea you goodwill as well as good mone

HALEX 'Rondated' Toothbrus

Gentler for gums — better for te

'RONDATED' is the trade name of
HALEX LIMITED, HALE END, LONDON,

CHEMISTS

IF YOUR
LOCATION
IS

NORTH
EAST

Your Enquiries
will be welcomed by

MIDDLETO
& CO. LTD.
BOUNDARY ROA
MIDDLESBROUG

PRODUCTS IN CONSTANT DEMAND

★ **OPTABS**
EYE LOTION TABLETS

★ **INFLUCOL**
ORAL VACCINE FOR THE COMMON COLD

★ **EPISEPS**
GERMICIDAL THROAT PASTILLES

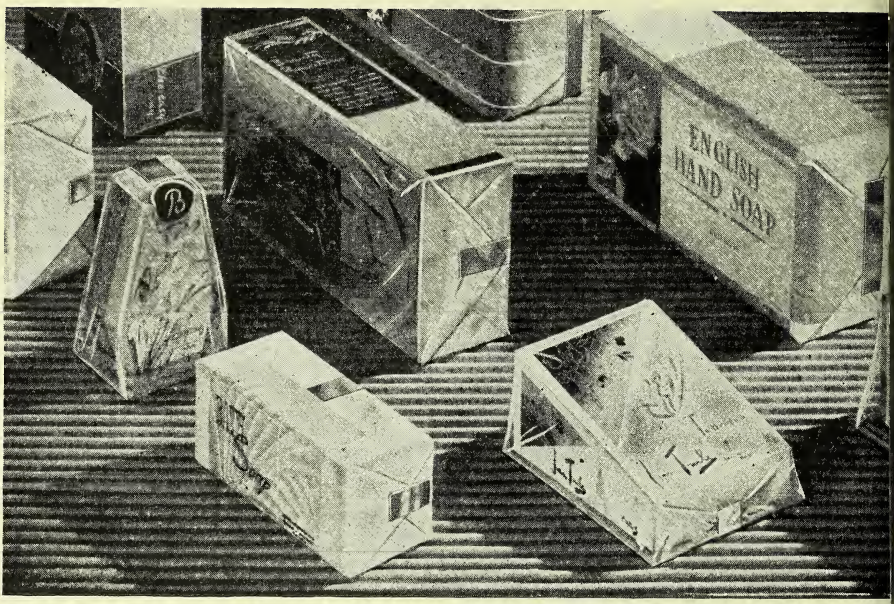
★ **SOMINOX**
SLEEPING TABLETS

These established products are now marketed by the Parent Company, Optabs Limited, from their new premises at Kemtheutic House, Bradford. The simplification of ordering, invoicing and payment will greatly help our many friends in the profession.

Enquiries will be given our immediate attention.

Optabs LIMITED

ephone : BRADFORD 28797 (10 lines) *Telegrams :* KEMTHEUTIC, BRADFORD



***Instantly* ADHESIVE . . .** No heat or mo ture required—simply apply with light finger pressure and it sticks . " DUREX " Cellulose TAPE is the perfect seal for packs of any shape or s . . . it is the only satisfactory closure for the moisture-proof type of Cellul film. . . . Write today for full details and prices.

Transparent and in colours, in rolls 72 yds. (2,592″) long and in a range of widths

" DUREX " HEAVY DUTY DISPENSERS are available—they are Tape-Savers, and always ready for instant use. . . .

"DUREX" *Cellulose* TAPE

DUREX ABRASIVES LTD., ARDEN RD., ADDERLEY PARK, BIRMINGHAM,

SPOTLIGHT ON....

The new "JUNIOR" Lipstick

6 ★ SPARKLING NEW COLOURS

ROYAL
RED WINE
DAMASK ROSE
PAGEANT RED
PINK TULIP
FATAL APPLE

Tryst

2/6
INC. TAX

☆ All for immediate supply.... plus the lovely standard Shades in the Tryst Range

by ★ Tryst

of REGENT STREET

Infants Feeding Bottles -
Upright & Double-ended

another W product

The double-ended Feeder is supplied spare, or packed in carton with Teat, Valve and Brush, the Upright Feeder, spare only. Our quality and workmanship is unrivalled, having specialised in the production of Feeding Bottles for over 100 years.

WOOD BROTHERS GLASS CO LTD OF BARNSLEY IN YORKSHIRE

CHEMISTS' CF FORMULA

"ZEMS"

HERBAL LICORICE TABLETS

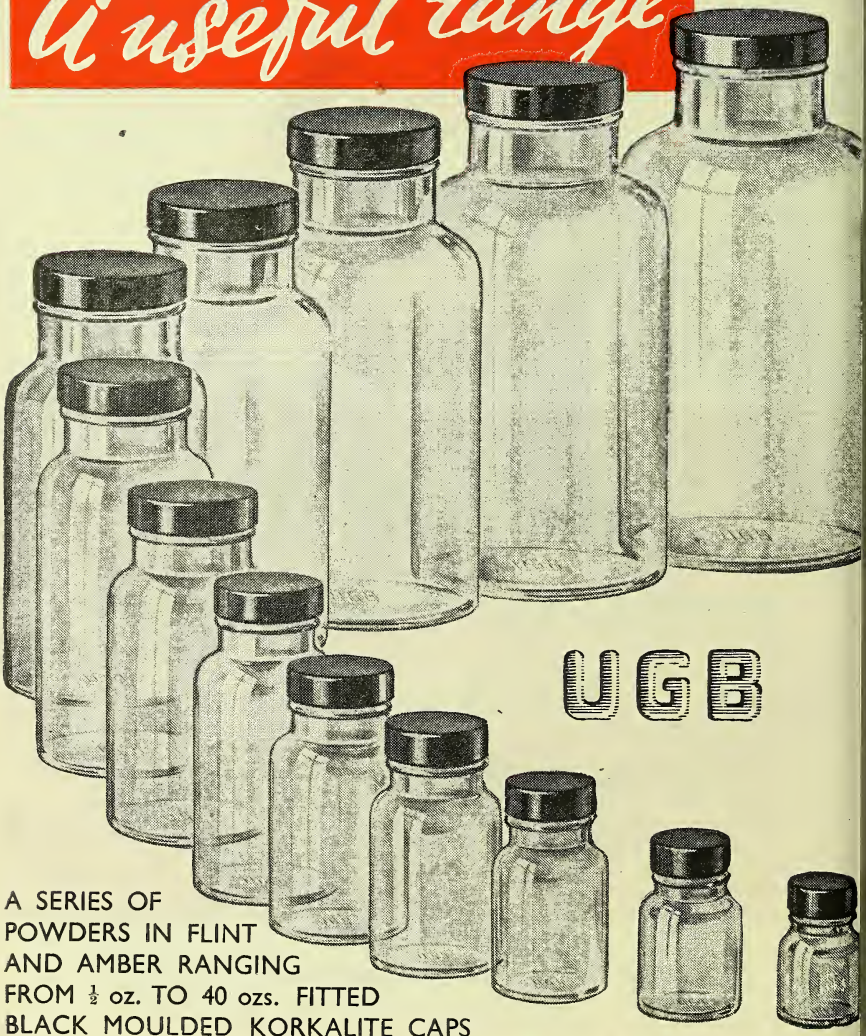
THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F. Wholesale Houses.

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

A useful range

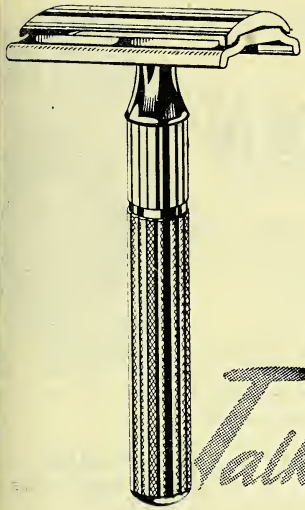


A SERIES OF POWDERS IN FLINT AND AMBER RANGING FROM ½ oz. TO 40 ozs. FITTED BLACK MOULDED KORKALITE CAPS

UNITED GLASS BOTTLE MANUFACTURERS LTD

8 LEICESTER STREET, LONDON, W.C.2

Telephone: **GERRARD 8611 (15 Lines)** *Telegrams:* **UNGLABOMAN, LESQUARE, LONDO**



Talking of precision

Gillette advertisements are now reminding the public that . . . when a razor grows old and worn, shaving is bound to suffer . . . Gillette razors and blades are precision instruments working in close partnership for perfect shaving . . . with Gillette razors once again plentiful, the public is being told now is the time to buy a new one and enjoy the perfection that modern precision-shaving offers.

See that your stocks of Gillette are adequate. With the solid, continuous backing of Gillette advertising behind you, make the most of this great opportunity to . . .

Sell more

Gillette Razors

Gillette Industries Limited, Great West Road
Isleworth, Middlesex

CLEVER NEW ANGLE IN 'TIBS' ADVERTISING

Full story told in pictures
Pack now featured

'Tibs' press advertising now has a new stronger-than-ever sales appeal. Hitherto, in the familiar wordless 'strip' one of the cats has been shown as weak and listless in contrast to the abundant energy of the 'Tibs' cat, while the copy has driven home the specific claims of the product. The new 'Tibs' advertising goes a stage further. It tells *the whole story* in pictures, gives considerable and logical prominence to the 'Tibs' carton, and still backs up the pictorial message with strong and readable copy.

Look out for this advertising in the national and provincial press. Tie up with it by displaying 'Tibs' on your counter.

BOB MARTIN LTD., SOUTHPORT, LANCS.

FACT-NOT FICTION

says ANONA WINN
Famous Stage and Radio Star.

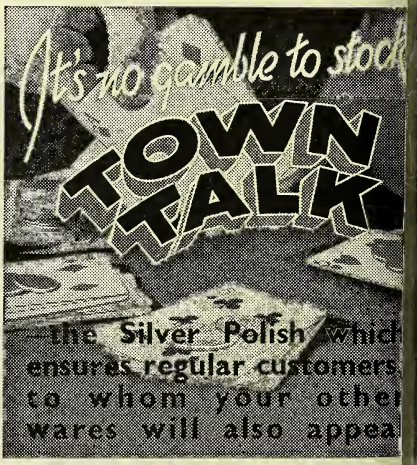
Miss Anona Winn is recommending AURORAL DYES in millions of advertisements in periodicals and magazines during 1948.

Less 5% for cash in 7 days

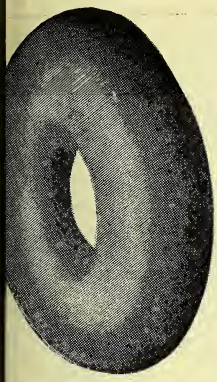
AURORAL
Cold Water Dyes
48/- gross

WINNER
Home and Stocking Dyes 24/- gross

WHITAKERS OF KENDAL



ORDER DIRECT OR FROM
MANCHESTER: D. Mawdsley & Co. James Woolley Sons & Co., Ltd.
LEEDS: Goodalls (Leeds), Ltd.
LEICESTER: E. H. Butler & Son.
NEWCASTLE-ON-TYNE Wilkinson & Simpso
LONDON: Brooks & Warburto Ltd. May, Roberts & C Ltd. Butler & Crispe
LIVERPOOL Ayrto Saunders & Co. Ltd.
THE TOWN TALK POLISH CO. Manchester



LATEX FOAM RING CUSHIONS

GOOD SUPPLIES!

This big selling line is back again on the market. Supremely comfortable, the Dunlopillo ring-cushion is an ideal travel companion and an invaluable aid to invalids. Its softness and uniform support provide perfect relaxation.

Chemists can now obtain these cushions from their usual wholesalers.

A light cover should be used with these cushions.

RETAIL PRICE 11/8d. Type E 105045 16" diameter 5" hole

DUNLOPILLO

The original **LATEX FOAM**

Dunlop Rubber Co. Ltd., Dunlopillo Division (Dept. C.D.), Rice Lane, Walton, Liverpool, 9.
London: 19-20 New Bond Street, W.1.
FOUNDERS OF THE LATEX FOAM INDUSTRY

DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for — Cushion Comfort

de
rk
tty
Pot"
ent-
lied for

A NON-CORROSIVE ACID-PROOF HYGIENIC CHILD'S CHAMBER

Detachable ring, easily removed for cleaning purposes

Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS
J. BILLIG & SONS LTD., BILTIN WORKS, FONTHILL Rd. LONDON N.4.
ESTABLISHED 1899 TELEPHONE: ARCHWAY 2753 & 3858

In pursuit of protein

So accustomed have we become to thinking of Bemax mainly as a rich natural source of the vitamin B complex that its high protein content is not always fully appreciated.

Compare, for example, the *protein* content of bacon and Bemax. The 2-oz. bacon ration should provide, in a week, about 6.2 grammes of first-class protein. *One* daily tablespoonful of Bemax will provide, in the same period, more than 30 grammes of *first-class* protein.

The protein value of Bemax in terms of essential amino acids is well demonstrated in this table of assay figures (copyright).

arginine	2.5%	phenylalanine	0.9%	leucine	2.1%
histidine	0.9%	cystine	0.3%	isoleucine	1.3%
lysine	1.8%	methionine	0.5%	valine	1.6%
tryptophane	0.3%	threonine	1.2%		

Bemax ***stabilised cereal embryo***

BEMAX TABLETS

are available in cartons containing 60 or 120 tablets retailing at 1/6d. and 2/6d. respectively.

Vitamins Limited

Upper Mall, London, W.6.

INTRODUCING

PERMANENT PLASTIC STARCH

Chemists! Be ready to cope with the demand for ***dip*** — the permanent plastic starch with a sure fire sales appeal! ***dip*** starched ***stays starched.*** Articles iron up stiff and fresh. Supported by extensive advertising; ***dip***'s attractive display stand instantly appeals. Available free.

Retail Price **2/3 a bottle.**

AVAILABLE THROUGH FOREMOST WHOLESALERS

AN ALL-BRITISH FIRM

have pleasure in announcing that :—

BRONCHOVYDRI

is back on the British Market.

●

Exempt from Purchase Tax

●

This Inhalant for the Treatment of Asthma is now Obtainable from the

Manufacturers and Sole Distributors :—

BRONCHOVYDRIN (1945) Ltd.

12 WESTWOOD ROAD, BARNES, S.W.13

STURGE CITRIC ACID

JOHN & E. STURGE
LIMITED
1 WHEELEYS ROAD · BIRMINGHAM 15
Manufacturers of Fine Chemicals since 1823

DT3*

THE most popular ANTI-MIDGE cream

DIMP is rapidly establishing itself as the most popular Anti-Midge Cream. Following on last year's successful season, DIMP is now reappearing with a bright new display carton, attractive pictorial showcards and window bills in colour.

Display DIMP and benefit by the extra sales that greatly increased National Advertising will bring you.

DIMP, a pure white, odourless, non-greasy cream, contains 50% dimethylphthalate.

SCOTT & TURNER Ltd

NEWCASTLE-UPON-TYNE

BANKS OFFER

New Service

Your Bank is ready and willing to you to invest your money in National S Certificates. All you have to do is to s Banker's Order form, either for a single bl National Savings Certificates, or for a s month-by-month amount. Your Bank will rest without trouble to you, and without ch for their services.

Remember, that with Income Tax a the new National Savings 10/- Certificates, held for 10 years, are the equivalent of a t investment yielding £4 16s. 8d. per cent. are paying more than 9/- in the £ they ar more attractive. Savings Certificates are a able gilt-edged investment and you can no 1,000 units of the new issue in addition t mitted existing holdings of Certificates of issues. See your Bank Manager about it

SAVE—*The Bank*

Issued by the National Savings Co

F. H. STEELE & Co.

Manufacturing Chemists

BLACKROCK · DUBLIN

Now offer wide range of

MEDICATED PASTILLES LOZENGES · TABLETS CORDIALS & SQUASHES CHEWING GUM (including non-medicated) CHEMISTS' CONFECTIONERY AND TOILETRIES

Specially made and attractively packed for chemist trade only

All products of highest sta manufactured under ideal cond

EXPORT TRADE ENQUIRIES IN

Phone: Dublin 83610 *Grams:* 'Destel, Bla

This EXTRA SALES ASSISTANT Will bring in the summer crowds !

This colourful poster for BRONTAN will be appearing throughout the summer to assist you in selling this popular Sun Tan Cream to thousands. There's always a steady demand for Brontan in the summer season, so be sure you have stocks available by ordering NOW!

BRONTAN LTD.

1 Broad Street Buildings, Liverpool Street, London, E.C.2. Phone: BIShopsgate 6383

33⅓% PROFIT FOR YOU

Every time you sell the 3/10 size Carters you gain 1/-

IT'S EASY to sell the large-size Carters because the customer saves 10d. by buying it, and gets 5 more pills as well. Investigations show that one customer in every three will buy the large size when it is offered them. Supplies are readily available. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now*
from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

"Leda"

BRINGS *MOST* PROFIT TO YOU

Ask your Wholesaler for "Leda" Baby Powder

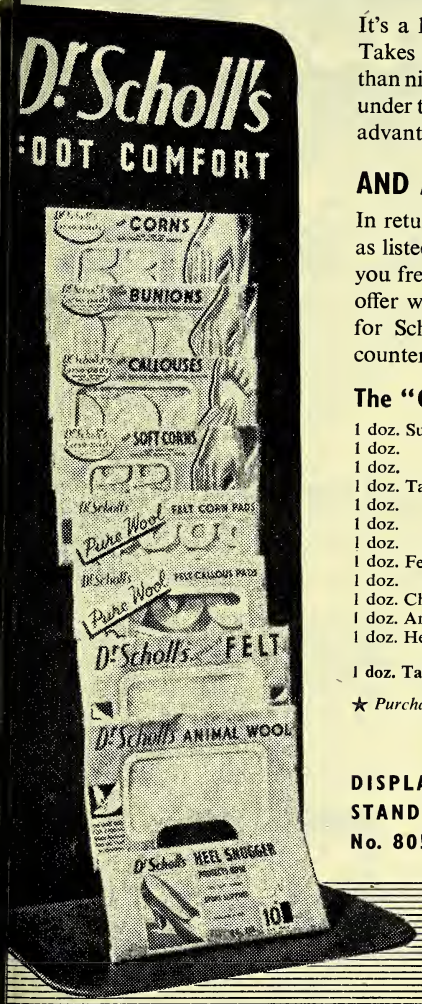
per 1/6 tin
INCLUDING PURCHASE TAX

Sole Agents for N. Ireland: Whyte Reid & Mitchell, Ltd 61/63 Donegall Pass, Belfast.
Sole Agents for Scotland: Southern Mfg. Co. Ltd. 214 West Regent Street, Glasgow, C.2.
Manufacturers:
LEDA CHEMICALS LTD., Ponders End, Middx.

AMPOUL
FILES
(BRIGHT FINISH and CADMIUM FINI
GOOD CUTTING EDGE
Send your orders to :—
JULES LANG & SON
96, HATTON GARDEN, LONDON, E.C
Telegraph: "Assorted Phone London". Holborn 8687 (5

MANOIDS
NEVROIDS
URICURE TABLET
OCCASIONAL PILL
THE ACTON PILL & TABLET Co. Ltd.
ASH VALE SURREY
and all Sundries Houses

hy not have an extra helper?



It's a hard worker — the new Scholl Display stand. Takes up little room — asks no wages. Holds no less than nine best-selling Scholl lines and keeps them right under the customer's eye from morning till night. Take advantage of the offer below — and it's yours — free!

AND A NEW BONUS OFFER!

In return for your order for one gross of Scholl goods as listed below, or one gross of your selection, we give you free one dozen Tarso-Pads (corn size). With this offer we also enclose handy dummy display cartons for Scholl Zino-Pads. Very compact and wonderful counter-salesmen.

The "One Gross" Bonus Parcel

	PER DOZ.★	RETAIL PRICE
1 doz. Super-soft Zino-Pads for corns - -	12/-	1/9
1 doz. „ „ „ callouses -	12/-	1/9
1 doz. „ „ „ bunions -	12/-	1/9
1 doz. Tarso-Pads for corns - - - -	5/-	9½d.
1 doz. „ „ bunions - - -	5/-	9½d.
1 doz. „ „ callouses - - -	5/-	9½d.
1 doz. „ „ soft corns - - -	5/-	9½d.
1 doz. Felt Pads for corns - - - -	5/-	9½d.
1 doz. „ „ callouses - - -	5/-	9½d.
1 doz. Chiropody Felt - - - - -	5/-	9½d.
1 doz. Animal Wool - - - - -	5/-	9½d.
1 doz. Heel Snuggers - - - - -	5/6	10d.
1 doz. Tarso-Pads for corns - - - -	free	9½d.

★ *Purchase Tax* 33⅓%

DISPLAY STAND No. 805

E SCHOLL MANUFACTURING CO. LTD., 182/204 St. John Street, London, E.C.1

Fennings

FAMOUS FOR OVER 80 YEARS

SULPHUR POWDERS

The Safe Corrective-

WIDELY ADVERTISED – ORDER NOW – AN EVERYDAY "SELLER"

Retailing at 1/6 AND 3

ALFRED FENNINGS, HORSHAM, SUSSEX.
(formerly of Cowes I.O.W.)

IT SELLS ON SIGHT!

When your customers see this package of Feen-a-mint — the famous *original* chewing gum laxative—it sells on sight! It is smartly cellulose-film wrapped and as display-worthy as ever! Order to-day, from your usual wholesaler.

Feen-a-mint

WHITE LABORATORIES LTD., MITCHAM, SURREY

AMPOULES

Ampouled Injections and Powder Ampoules In lar small quantities. Specialist production under e ienced Chemical and Medical supervision.

Trade enquiries invited

MARKWELL, EDWARDS & CO. LTD
589, High Road, London, N.12 Hillside

TAMPAX

SANITARY PROTECTION

Worn Internally

Goodwill Selling

When you stock a line like HERBALEN a rapid turnover is not only assured, goodwill is gained. National advertis and the recommendations of satisf users have created a permanent place the market for this natural, non-ha forming herbal laxative. Agents wan where not at present represented.

HERBALENE (Reg.)

1/6 and 2/6 per pkt. 3/8 per large Retail prices.

LUSTY'S NATURAL PRODUCTS C
WESTCLIFF - ON - SEA : : ESS

'ASPRO' DISPLAYS MAKE CONTACT with a huge public

HERE'S THE REASON: 'ASPRO' has the largest sale—has **more** users—than any single medicinal line of its kind in the world. So that an 'ASPRO' display speaks directly to a huge public—and brings them in; 9 out of 10 of them stay to make other purchases as well. Countless chemists have found to their profit that displaying 'ASPRO' pumps new life into business when the general turnover is "limp." 14 days' window display qualifies you for bonus.

BUYING ON BONUS TERMS MEANS GREATLY INCREASED PROFIT

How much this means the following figures will show: on the very modest minimum order of 3 doz. 27's and 6 doz. 5's (which yields a profit of 18s. 4d.), you receive stock **to the value of 10s. 6d.** as a free bonus. This **increases** your total profit over 50 per cent. Larger bonus *pro rata* on larger orders.

Made by ASPRO LIMITED, Slough, Bucks. P.A.T.A.

Send for this Summer Plastic in Light Mauve and Green

★ PAPER BAGS ARE WORTH WATCHING

At present, we have good stocks of 2 oz. glazed transparent and 2 oz. white sulphite paper bags, so why not **ORDER WHILE YOU ARE SURE OF SUPPLIES ?**

Now! you can order

AT last we can give you prompt delivery of Juno-Junipah in reasonable quantities. Our increased production has finally caught up with the demand and your orders will have our immediate attention.

JUNO - JUNIPAH

The Woman's Own Health Salts

THOMAS MARNS LTD.
2a, Caxton Street, London, S.W.1
Phone: WHItehall 6310

The answer to your container problems

Enquiries are invited for all types of lever-lid and screw-top cans, with solutioned or soldered seams. All sizes are available up to one gallon capacity. Please send for illustrated leaflets Nos. 62 and 73.

PERCENTA
THE CONTAINER PEOPLE
(PERCENTA LTD.)

NOTE.—To support Gover ment policy, we have mark down prices on many item

PERCENTA HOUSE, 130/2 TOOLEY STREET LONDON, S.E.
Phone: HOP 0516 (6 lines)

Firm Favourites!

with every member of the family . . . .

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM · BABY OIL

SHAVING CREAM · LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: **NEWBERY & PHILLIPS LTD.**
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

for

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

318

Steady sales and good supplies

Extensive advertising of D.D.D. Balm — in the national provincial and periodical press and the women's journals — is a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of D.D.D. Balm are so steady. Supplies are now equal to demand — your wholesaler can deliver from stock.

D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.

TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.

D.D.D. BALM

D.D.D. COMPANY L
3 FLEET LANE, LONDON,

DISTRIBUTOR FOR NORTHERN IRELAND—MESSRS. J. & W. C. GAW, 30 BANKMORE ST, BELF
DISTRIBUTOR FOR EIRE—MESSRS. HENRY FINN & CO., LTD., CENTRAL HOTEL STOCKRO
EXCHEQUER STREET, DUBLIN

BLAKEY'S MALTED OATMEAL

The food that **for over 50 years** has helped to build Britain's Bonniest Babies.
The ideal diet for nursing mothers & invalids.

11D and 2/-

BLAKEY'S FOOD CO. LTD., LINC

To increase your sales!

Here is a real opportunity! Advertising for SevenSeaS this season will be stronger than ever. And there is a really fine showcard for you (17" x 11"). Window display material, too — free of charge. Your displays have done much to increase sales in the past; and now, at last, we can help you to make your windows really striking. Don't delay. Write to-day for your showcard — for display material, too *(stating width and height of display space)*.

IT WILL BRING CUSTOMERS INTO YOUR SHOP

SEVENSEAS

PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

for the COMMON COLD . . .

P.A.T.A.

During the coming months, there are always colds about. For rapid and effective treatment, your customers will expect to obtain Serocalcin *from stock.* Please maintain a stock for this purpose.

Serocalcin is packed in 20's and 60's

★

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. ENO Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.

SEROCALCI

FOR THE PREVENTION AND TREATMENT OF COLDS

HARWOODS LABORATORIES LTD · WATFORD · HE

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London' W.C.2.

The CHEMIST AND DRUGGIST SUPPLEMENT

upplement is in- in every copy of emist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

AUGUST 14 1948

RIDGE & CO.

ESTABLISHED 1846

BRANCH OFFICES:
orfolk House, Cannon Street
BIRMINGHAM 2
Phone: Midland 6547
77 High Street Shirley
SOUTHAMPTON
Phone: Southampton 71708

184 STRAND, LONDON, W.C.2
Telephone: TEMPLE BAR 9212/3—6340
Telegrams: Orridgchem, Estrand, London

rthern Ireland. Very important Wholesale etail business for disposal. Net Profit to ing Proprietor over £5,000 a year. Pro- ly situate premises. Very valuable fixtures, , plant and machinery, etc. Price required 0, s.a.v. Banker's reference with applica-

est Central London. Old-established busi- n under management. Turnover last year 0. Net profit after paying all overheads £1,900. Leasehold premises for sale for or alternatively 21 years' lease available 00 per annum for entire premises. Up- ublet for £150 per annum leaving rent for 250 per annum.

ndon. Wholesale Drug business for sale. ities. Net Profit under management last ver £3,500. Security of tenure. Valuable Travellers. Increasing business. Total purchase price including valuable stock approximately £12,000.

4. South Africa. We have four substantial businesses for sale in the Durban district. Full particulars upon application.

5. London, South-East. Retirement vacancy. Busy working-class business with extensive dispensing connection. Last month N.H.S. prescriptions amounted to 2,721. Cash takings about £80 per week. Very nice living accommodation, in excellent state of repair. Heavy stock. Good fixtures. Rent only £100 per annum. Renewable Lease. Price required for business £4,000.

6. North of England. Wholesale Distributing business, turnover about £600 per week. Valuable Lease. Travellers. Total price to include very substantial stock about £15,000. Details upon receipt of Banker's reference. No reasonable offer refused.

7. Hertfordshire. Main road business and premises for sale. Turnover over £11,000. Splendid living accommodation including five bedrooms. Total purchase price to include Goodwill, Fixtures and Book Debts about £14,800. Heavy Stock, good Fixtures included. Substantial mortgage could be raised on freehold.

8. Devon. Middle-class business for sale for health reasons. Turnover last year over £7,200. Net profit averages £1,500 per anunm. Nice living accommodation. Small garden. Valuable Stock and Fixtures. Price required £4,000, s.a.v. in all about £5,200.

ALES, PURCHASES, VALUATIONS, STOCKTAKING *and* ASSESSMENTS

BUSINESSES WANTED

6 words or less, 3d. for every additional word

ISER wishes to buy up to six shops (phar- or drug stores) in London area, together rately. Present management retained, nay continue as managers. Write in strict ce giving details of turnover, profits, rent, lease, approximate price required dwill, value of stock, fixtures, etc. Box

H PHARMACIST with substantial business n Coast is desirous of settling in the Irish te. Ample capital at command. Remunera- iness required. Please contact Orridge & 4 Strand, W.C.2, in the first instance, the envelope private and confidential,

SHED wholesale business wanted in South of England; controlling interest considered iew to complete purchase. Details of stock, , lease, rent and all particulars would be n strict confidence. Box 4,367.

IST, drug store, surgical store or chemists Yorkshire area or near preferred. Box

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

BLACK COUNTRY. Chemists' business for sale. Turnover over £5,000. Long lease. Modernised dispensary, fixtures and fittings good. Main road position. No multiple opposition. Flat with separate entrance. Price £3,500 plus stock. Box 4/329.

BLACKPOOL, SOUTH SHORE. 20 yards from Promenade. Drug store, suitable for chemists. Long lease. Large summer trade. Vendor too many other interests. Stock and fittings at valuation. Goodwill £1,150. Box 4/364.

COSMETIC MANUFACTURERS, Chelsea. Well-equipped premises, 14 years' lease, low rent. Turnover £12,000 p.a. Price, including all equipment, utility van and £1,200 stock, £1,500 a.a. Freeman & Kent, Estate Office, 69 New Cavendish St., W.1. Langham 2667.

HOUNSLOW. Pharmacy on main road. Cert. turnover £5,000 p.a. Rent £115 p.a. exc. 18½ years on lease. D.f. shop, dispensary, stores, 1 reception, 3 beds, kit., garden. Photo agency. Direct accounts. Goodwill, fittings, £1,750, stock £1,450 app. National Business Agency, Ltd., 39 King William St., London, E.C.4. Mansion House 4922.

STOCKTAKING FOR INCOME TAX OR SALE VALUATIONS

In addition to the normal chemist's stocktaking, I specialise in the valuation of—

Photographic Stocks & Equipment
Optical Stocks & Equipment
Fixtures & Fittings

and all items relating to Wholesale or Retail Chemist's Businesses.

DETAILED INVENTORIES SUPPLIED IF REQUIRED

Chemist's own Stock sheets Priced.

Results Available SEVEN DAYS after Valuation

Scale terms on application to—

M. H. BARNES (Licensed Appraiser)
4 CHARLWOOD ST., VICTORIA, S.W.1
Telephone : VICTORIA 5686

NORTH WALES. Large chemists and opticians business in Coast town for sale. Photographics; Kodak agency. Freehold premises also for sale or on lease. Principals only. Box 4/327.

SPLENDIDLY situated business for disposal, freehold premises, main road South-East coast resort. Shop and flat modern throughout, new fittings. Capital required about £6,000. Replies, please state bona fides. Box 4/371.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

8/6 for 36 words or less, 3d. for every additional word

RETAIL (HOME)

ASSISTANT, just qualified, for Central London Pharmacy. Good prospects. Apply Box 4/309.

BIRMINGHAM. Unqualified assistant required for counter and dispensing. Salary £7 10s. weekly. Also qualified assistant. Salary £10 weekly. Apply E. Tranmer, M.P.S., 42 High St., Smethwick, Birmingham.

BOGNOR. Unqualified Male Assistant required by well-known chemists. Please apply giving full details to Box 4/251.

BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., have vacancies for branch pharmacists, male or female. Permanent progressive positions. Good conditions and salary, superannuation scheme in operation. House accommodation provided. Apply, Superintendent Chemist, at the Registered Office, 32 Sycamore St., Sheffield, 1.

CHESTERFIELD. Superintendent chemist wanted beginning September. Permanency to suitable man or woman, but would consider applicant available for a few months. Box 4/349.

BOOTS THE CHEMISTS have vacancies in a n of districts for qualified assistants, male and f Salary (Male) Central London, £8 15s. to £ Metropolitan District, £8 7s. 6d. to £9 17 Provinces, £8 to £9 10s. (Female) Centra don, £8 5s. to £9 15s.; Metropolitan D £7 17s. 6d. to £9 7s. 6d.; Provinces, £7 £9, according to age. Engagements are on manent basis with good prospects and eli for Pension, Life Assurances, etc. There a a number of vacancies for Unqualified As fully trained in the business and including dispensers who have been released by c etc. Good remuneration with a view to p ency, Pensions Scheme, etc. Applications be made to Retail Staff Department, Street, Nottingham, stating age, experien district required.

CHEMIST requires assistant experienced i pensing. Part-time might be arranged. K ton area. Apply Box 4/308.

COXHOE CO-OPERATIVE SOCIETY, LTD., applications for the position of pharmacist manent employment. Excellent living accor tion. Superannuation scheme in operation. applications, stating age, wage required, exp and qualifications, to the Committee, Coxh Durham, by August 20th, 1948.

DERBYSHIRE—Small Town. Vacancy occu young qualified man or woman, mainly f pensing duties. Good salary and comfortab manent post. Apply with all particulars perience in first instance to Box 4/312.

DISPENSER-BOOK-KEEPER, single, wanted of doctors; rooms provided. Please state a perience, and salary required. Drs. Squires son and Seward, Wantage, Berks.

EVANS MEDICAL SUPPLIES, LTD., require a pharmacist for dispensing and supervisory Salary according to qualifications and exp Applications should be sent to: The M Evans Pharmaceutical Laboratories, 29 Fle Liverpool, 1.

EXPERIENCED, unqualified staff (male or required for retail pharmacies, Woolwich Write Box 4/363.

EXPERIENCED AND CAPABLE Manageress r in September for high-class toilet counter i of England Pharmacy. Must be well educa of good appearance. Write in first instan ing particulars. Box 4/280.

FOREST GATE. Wanted, unqualified a either sex. Good counter-hand experience Watson, Chemist, Forest Gate, E.7.

GILLINGHAM CO-OPERATIVE CHEMISTS the services of a qualified assist, male or for busy central pharmacy. Excellent prosp suitable person. Superannuation, pensio Applications with usual details to: Secreta lingham Co-operative Chemists, Ltd., 14 St., Gillingham, Kent.

LADY with "Hall" certificate required t with dispensing in pharmacy situated in town. It is confidently anticipated that a working hours could be arranged for a applicant. Particulars, please, to Box 4/3

LADY OR MALE ASSISTANT, qualified, r middle-class family business, mainly for dis department, which offers scope for gain perience in all departments. Write, givi details, salary required. Yearly bonus give staff. Strood Pharmacy, Ltd., Strood, Ker

MANAGER required for business in Sun area. Salary according to age and experien owner is willing to pay well for the righ Interest in business available. Considerabl for keen man who can build up and org good business. Apply with full particu Box 4/353.

NOTTINGHAM. F. Coates & Co., Ltd vacancy for qualified manager for lock-u Apply to W. J. Appleby, 56 Rawson St Basford, Nottingham.

HARMACIST and one dispenser required by West private company. Box 4/370.

GE & CO., Employment Agency, 184 Strand, Temple Bar 9212/3. Branches at South- and Birmingham. Enquiries invited from ployers seeking staff. Many pharmacists and fied assistants available for retail and whole- Representatives also requiring situations. able terms. Write to 184 Strand, W.C.2 for lars.

MACISTS required in London retail; £500 num. Dispensing light. Box 4/372.

MACIST required, able to take control of ood-class branch pharmacy. Wage, £8 2s. by letter stating age and experience to ools Co-operative Chemists, Ltd., Stockton est Hartlepool.

R. Manager, qualified, required for busy cy in Poplar. Good salary offered to ener- an with experience. Permanency with good ts. Apply Box 4/235.

EA ISLAND Co-operative Chemists, Ltd., re- qualified pharmacy branch manager. Per- cy, excellent prospects, superannuation Applications in writing, stating age, quali- s and experience, and salary required, to xecutive Officer, 110 Fratton Rd., Ports- Endorse envelopes "Pharmacist."

FIED ASSISTANT (lady or gentleman), qualification an advantage but not essen- rticulars, experience and salary to T. Hesel- f.P.S., 44 High St., Normanton, Yorks.

FIED ASSISTANT required for country phar- Young gentleman or lady, preferably single. exclusively dispensing. A well salaried, ial position for a suitable applicant. Please n the first instance to Box 4/223.

FIED manager or manageress for small in North Staffordshire. Would suit newly d person. Good wages and free living ac- dation over shop if required. Browns ts Ltd., 27 Stoke Road, Stoke-on-Trent.

FIED MANAGER required for country busi- ar Leeds. Congenial post in pleasant dis- Excellent prospects for right person. No odation available, but assistance given to same. F. D. Masterson, Ltd., Sherburn-in- Leeds.

FIED MANAGER required for busy city pharmacy; very little dispensing. Modern in residential district. Please give full par- Permanency. S. J. Mott, 48 Piccadilly, Stoke-on-Trent.

FIED MANAGER required for good-class dispensing business in residential area in don, Surrey. Permanent appointment; no accommodation. Good salary. Apply 4/233.

FIED MANAGER required for good-class fam- pensing business in Streatham. Permanent ment; living accommodation available; good Apply Box 4/234.

SH CO-OPERATIVE WHOLESALE SOCIETY drug department invite applications from d chemists to act as pharmacy branch rs in Glasgow, Fifeshire and Ayrshire. ies also exist for qualified chemist-opticians age combined pharmacy and optical depart- Positions are progressive and a superannua- heme is in operation. Interviews will be d to suit applicants. Apply in writing, particulars of age, experience and area pre- to the Technical Supervisor, S.C.W.S., etail Drug Department, 187 Bogmoor Rd., all, Glasgow, S.W.1.

NTENDENT PHARMACIST, fully qualified, d as departmental manager and buyer. In- trade, capable of great development. Per- and progressive position to right applicant. state salary required, to the Secretary, Main Co-operative Society, Ltd., Doncaster enaby Main, Nr. Doncaster.

AY. Manager required — should interest us Pharmacist desirous of obtaining posi- ering scope and opportunities. Permanency. with full details to Box 4/250.

The Institute of Chemists-Opticians,
2 Clements Inn, Strand, W.C.2

For Syllabuses of the Institute's Examinations and all further Information, write to the Hon. Secretary, J. Ross-Mansell, Ph.D., B.Sc.

THE ROYAL ARSENAL Co-operative Chemists, Ltd., have vacancies as pharmacy managers and qualified dispensers. Applications are invited from qualified pharmacists, male or female, and particulars of salary and commission will be forwarded on application. Permanent and progressive positions. Superannuation scheme in operation. Write for particulars to the Staff Manager, 113 Powis St., Woolwich, S.E.18.

UNQUALIFIED ASSISTANT required for a high-class City pharmacy. This is a permanent and progressive position with a competitive salary and congenial working conditions. Apply, stating age and details of experience, to Symes & Co., 14 Hardman St., Liverpool, 1.

VICTORIA, S.W. Branch Manager required for mixed-class pharmacy within 10 minutes of Victoria Station. Permanent appointment; good salary. Saturdays half day. Apply Box 4/237.

WALSALL, STAFFS. Pharmacist required to supervise suburban branch; very light duties, but no living accommodation. Shelley's, Chemist, Ltd., Caldmore, Walsall.

WELL-ESTABLISHED Chemists require qualified lady Pharmacist, also part-time Pharmacist. Excellent post offering scope and opportunities. Apply giving full details to Box 4/252.

WESTON-SUPER-MARE. Assistant required, qualified or unqualified. Mainly dispensing. Apply Managing Director, Lewis Wing, Ltd., 86 Regent St., Weston-Super-Mare.

WEST END, London, Qualified assistant, lady or gentleman, required for West End type of business. Duties principally dispensing and to assist at counter. Good salary. Apply Box 4/236.

RETAIL (OVERSEAS)

UNQUALIFIED GENTLEMAN, Gentile, as assistant, aged 30-50. Congenial easy position. 44-hour week. 3 weeks' vacation. Salary about £400. Write air mail. Simpson, Box 1136, Port Elizabeth, South Africa.

LOCUMS WANTED

DERBYSHIRE. Qualified locum required, any fortnight in September, for pharmacy in small market town. Box 4/160.

LOCUM urgently required. Qualified lady or gentleman for August 23 to September 6 inclusive for chemist in country town in Bedfordshire. Accommodation found. Box 4/347.

PHARMACIST required from August 16 for one, two or three weeks. Must be able to take full charge. Expenses paid. Goldthorpes, 10 Powis St., Woolwich, S.E.18. Woolwich 0403.

QUALIFIED CHEMIST LOCUM wanted immediately as departmental manager for three or four weeks. Please state terms and particulars to the Secretary, Denaby Main Co-operative Society, Ltd., Doncaster Rd., Denaby Main, Nr. Doncaster.

WHOLESALE

A LEADING FIRM of baby food manufacturers invite applications from experienced pharmaceutical representatives of good trade standing, between the age group 30-40, in connection with a vacancy covering South Wales, Bristol, and the West Country, resident in Bristol. The appointment is of a permanent character carrying a good salary, pension scheme and prospects for personal advancement. Box 4/324.

Applications are invited for a position of shorthand-typist in the Publishing offices of the CHEMIST AND DRUGGIST. A good general education and some knowledge of office routine and commercial correspondence are essential.

Apply in writing to

Staff Director, 28, Essex St., W.C.2.

A LEADING FIRM of pharmaceutical engineers (Liverpool area) require technician experienced in tablet making, coating, etc., for experimental and development work. M.P.S. an advantage. Write Box 4/289.

A QUALIFIED CHEMIST, experienced in up-to-date production methods is required for laboratory work in the development of new pharmaceutical products. Full particulars, stating salary required, to Box No. 3126, T. G. Scott & Son, Ltd., Talbot House, 9 Arundel St., Strand, W.C.2.

ANALYTICAL CHEMIST required by London manufacturing chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including opium, essential. 5-day week. Reply, giving particulars of experience, salary. etc., to Box 4/173.

APPOINTMENTS assuring a settled future and a happy association are offered by progressive manufacturers of pharmaceutical products in popular demand to representatives or sole agents with qualities and energy comparable with the high standard required. Territories, with existing connections, as follows:—(1) South London, Surrey, Sussex, Kent, Hants. (2) West Country. (3) Wales and Border Counties. (4) East Anglia. (5) North Lancs, Westmorland and Cumberland. (6) Home Counties. Interviews will only be arranged with salesmen supplying proof of long selling experience and well-established connections, preferably car owners. The positions are permanent with bright prospects for the right men. Please do not apply unless you measure up to the qualifications. Fullest details, in confidence, including exact territory, age and frequency of calls, etc. Box 4/366.

ASSISTANT with some pharmaceutical experience required for pill department of manufacturing chemists in London area. Apply with full particulars and salary required, to Box 4/362.

ASSISTANT ANALYST with C. & D. or Inter. B.Sc., some experience of analysis of drugs including alkaloidal assays desirable. Details of experience and salary required, to J. F. Macfarlan & Co., 4 Warwick Rd., Boreham Wood, Herts.

BURROUGHS WELLCOME & CO. have vacancies for medical representatives in various parts of the British Isles. Applicants must be qualified and have a wide and up-to-date knowledge of modern therapeutics. Previous experience in detailing an advantage but not essential. The positions are progressive and pensionable (contributory scheme). Applications (by letter only), which will be treated in strictest confidence, should give fullest details regarding age and experience, and be addressed to the Manager, Home Division, Burroughs Wellcome & Co., 183-193 Euston Rd., London, N.W.1.

EVANS MEDICAL SUPPLIES, LTD., require several experienced drug counterhands. Apply, Staff Manager, 50 Bartholomew Close, E.C.1.

EXPERIENCED and capable representative required for London area. Must have good introduction to chemists, stores, etc. Only those who can produce good sales record please write, giving full particulars in confidence, to Box 4/369.

CO-OPERATIVE WHOLESALE SOCIETY LTD., quires representative with pharmaceutical qualifi tions for the Lancashire, Cheshire and North W areas. Previous travelling experience desirable not essential. Applicants should preferably live the Manchester area. Applications, stating a qualifications, experience and salary required, Grocery Committee, C.W.S., Ltd., 1 Balloon Manchester, 4, endorsed "Chemist Representativ

EAST LONDON & EASTERN COUNTIES, Lancas and Cheshire Areas:—Representatives, must car owners, required by well-known firm of ma facturing chemists to call upon retail chemists wholesalers. Well-introduced C.F.lines. Please w stating usual particulars, age, to Sales Mana Westminster Laboratories, Ltd., Chalcot Regents Park, London, N.W.1.

FIRST-CLASS Representatives required by large manufacturing branded line of Hypoder Syringes, to call on hospitals, institutions, wh salers, etc., in the various regions recently set by the Ministry of Health. M.P.S. qualificat preferred but not essential. Salary, commiss expenses. Permanency. Apply Box PP. 3 W. H. Smith & Son, Ltd., Manchester, 3.

GLASSBLOWER required for research departn of an important company in the London area. perience in construction and repair of ground apparatus would be especially advantageous. tion, which is permanent, offers excellent prosp to an enterprising and adaptable young man. C starting wage and superior working conditions. F day week, canteen, etc. Apply Box 510, Dor Advertising, Ltd., 18-20 Regent St., W.1.

IMPERIAL CHEMICAL INDUSTRIES, LTD., vacancies for pharmacists with literary ability experience in the compilation of literature and provision of information relating to medical veterinary pharmaceutical products. Applicat with full particulars should be addressed to Imp Chemical (Pharmaceuticals), Ltd., Staff and E lishment Section, Fulshaw Hall, Wilmslow, chester. This post is excepted from the provis of the Control of Engagement Order, 1947.

LEADING FIRM of proprietary medicine manu turers require experienced representative for dlesex, Hertford, Essex and London (North of Thames). Applicants must have good conne with chemist and allied trades, and should age, full details of experience, present employe confidence, and salary expected. A motor-ca provided, and successful applicant must be pared to live on the territory. Replies to 4/315.

M.P.S. (under 30) required for London sales o Full particulars of experience and salary req to Box 263, Curzon International, Ltd., 11 of York St., S.W.1.

MANUFACTURERS of nationally advertised pro distributed through chemist and allied trades quire representative for London and also L shire and Yorkshire. Age not exceeding 35 y Salary and expenses. Box 4/352.

MIDLANDS REPRESENTATIVE required by le brush manufacturer (national advertiser) to ca wholesale trade. Must own car. Generous sa expenses and commission. Box 4/339.

OLD-ESTABLISHED FIRM of wholesale and facturing chemists require a representative for shire and the Midlands. The applicant must experience in selling pharmaceutical prepara and galenicals, etc., to doctors and retail che and must be a car owner. Only gentlemen have an excellent connection with retail che should apply for this position, which carries sa commission, expenses and car allowances. 4/375.

PART-TIME AGENTS required for most are British Isles to introduce proprietary lines, san towels, surgical dressings, hot water bottles, Part expenses and generous commissions. give full details in first letter. Lax-Vita, Ltd Victoria St., London, S.W.1.

ARMACEUTICAL and medical manufacturing pany with world-wide interests has vacancy for epresentative in this country. Applicants, not 35 years, should give particulars of experi-, including details of education, age and re-eration. Box 4/287.

OCESS WORKER required for cosmetic and et preparations. Apply personnel Manager, Prit-rd & Constance (Mfg.), Ltd., North Circular West Twyford, N.W.10.

ALIFIED or unqualified representatives required well-known firm of manufacturing chemists for don and greater London. Write in the first ance, giving full particulars of previous ex-ence, to Box 4/332.

RESENTATIVE required for selling to veterinary fession in Devon, Cornwall and other West nties. Knowledge of veterinary products essen-Apply Box 4/346.

RESENTATIVE required, age 25-30. Midlands . Nationally advertised toilet preparations. d prospects. Key territory. Apply Sales Mana-Box 4/297.

RESENTATIVE. Well-known company invites lications for the appointment of representative all on chemists, grocers and other traders in s, Northants and Beds, for sale of famous ehold consumer goods. Good remuneration, use ar and expenses. Applicants must be prepared ive in Northamptonshire and must have a first-record. Reply, stating age, business experi-and other relevant particulars, to Box 4/343.

RESENTATIVES required for Midlands, Home nties, Lancashire, Yorkshire, Northumberland Durham, Eastern Counties, S.W. England and es. Nationally advertised product. Sound con-ion chemists essential. Car owners preferred. y first-class applicants considered. Salary, com-ion, expenses. Full particulars. Write Box 539, ur S. Dixon, Ltd., 229 High Holborn, W.C.1.

RESENTATIVES required for Scherk Face Lotion Tars After Shave Lotion. Commission basis. l additional line. Write, stating districts red. Large scale advertising commencing in ember, 1948. Reply Box 4/317.

RESENTATIVES on a good commission basis re-ed to offer medicated pastilles and pain-re-ng tablets of high repute. Only those that first-class connections amongst wholesale and l chemists and stores should apply, stating in first instance actual territory covered and lines ady handled. Box 4/321.

RESENTATIVES required by manufacturers of -known toilet brushes and accessories about to ch new lines for coming season. Must be well-oduced to leading stores and have active con-ions chemists and hairdressers. Commission s only. South-eastern area, Midlands North es and East Scotland. Give details and state r owner. Box 4/286.

AR COATER. An opportunity occurs for a first-coater with experience in all types of plain coloured work. To take charge of department old-established London house. Write, giving ils of age, experience and salary required, to 4/361.

OILET PREPARATIONS" high-grade manufac-rs have a few vacancies for well-established esentatives on a 15 per cent. commission basis. essential. Name firms you represent, lines car-and area in first letter. Box 4/331.

QUALIFIED MAN required for wholesale manu-uring chemists' veterinary work in Shrewsbury. le, aged 25 to 30. Apply Box 4/345.

CANCY for experienced representative to call hospitals and institutions in areas West of land, South Wales. Must have actual road ex-ence with a hospital supplies firm. Salary, mission, expenses, and car supplied. Must re-central area. Write full details of experience, ch will be treated in confidence, to Hospital s Manager, S. Maw, Son & Sons, Ltd., New net, Herts.

WORKS CHEMIST with pharmaceutical qualifications required immediately for pharmaceutical manufacturers. Interest in vitamins an advantage. The position is permanent and progressive. Write stating age, experience, qualifications, and salary required to the General Manager, Gelatin Products. Ltd., Trading Estate, Slough.

WORKS MANAGER. We have a vacancy for a fully experienced man, who must have full knowledge of the manufacture of medicated tablets, lozenges, pastilles, pellets and of liquorice goods and the machinery involved. Commencing salary £12 weekly. Only applicants who reside within ten miles of Manchester need reply, by letter. Lever, Brailsford & Co., Ltd., Irwell Vale Mills, Radcliffe, Manchester.

YOUNG MAN WANTED, thorough working knowledge of chemistry and toilet preparations manufacturing, to take charge of small department in well-established business. Excellent prospects. Apply, Henry Serventi, Ltd., 61 Beak St., Regent St., London, W.1.

£2 PER WEEK towards expenses, plus 10 per cent. commission. Nita Puff Co. require representatives to carry their established and exclusive lines. One other line not objected to. Write in first instance to 110 Dale End, Birmingham, 4.

SALES MANAGER required by a progressive firm of manufacturing chemists in London, having a large home and export turnover. Applicant should have a pharmaceutical qualification, experienced in correspondence, sales literature, controlling representatives, etc. To a man of the right calibre, capable of undertaking increasing responsibility, the post offers a permanent career with unlimited prospects. A keen, experienced man of real ability is required, to whom a good salary will be paid. Please reply in strict confidence giving age, full details of previous experience, to Box 4/290.

CLERICAL

JUNIOR SHORTHAND TYPIST

required in the publishing offices of the CHEMIST AND DRUGGIST. Applications should be made in writing to Staff Director, 28 Essex St., W.C.2

WHOLESALE (OVERSEAS)

A PHARMACIST, preferably with some administrative experience, is required for service in an executive capacity in our Indian branch. Candidates should be single and not over 30 years' of age. In addition, representatives with pharmaceutical training are required to develop sales in other Dominion and Colonial markets. A knowledge of surgical business would be an advantage. Applications, which should contain fullest possible details of education, technical qualifications and business experience, should be addressed to Personnel Manager, Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

APPLICATIONS are invited from those with experience in the manufacture of pharmaceutical preparations in particular tinctures, etc., to fill an important newly-created position in Pakistan. The position offers excellent scope and prospects to the applicant who has the requisite organising ability and qualifications. Interview with principal can be arranged in London. Full details of qualifications, experience, etc., should be forwarded in the first instance. Replies will be treated with strict confidence. Box 4/344.

STAFFORD ALLEN & SONS, LTD., require Ph.C. or B.Sc. for Nairobi laboratory. Applicant must have considerable experience in drug analysis. Long term contract will include free passage to Kenya and back for self, also wife and child if applicable. Free medical attendance, annual local leave, and after tour of duty, four months' home leave. Apply by letter, to Department D/RPM, 20 Wharf Rd., London, N.1.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

STOCKTAKING, quiet and efficient workmanship, over 30 years' practical experience. Personal supervision. C. W. Playfoot, 8 Aylward Rd., Merton Park, S.W.20. Tel. Liberty 4104.

WHOLESALE

A PHARMACEUTICAL CHEMIST, with first-class knowledge of the industry including manufacture, control and research, is looking for a position where his experience, ideas and initiative would be used advantageously. All proposals treated confidentially. Box 4/355.

COMMERCIAL AND SALES EXEC., seeks senior responsibility with first-class manufacturers. Desires change but remain in cosmetic/toilet preparation trade. Please reply Box 4/282.

ENTHUSIASTIC YOUNG MAN (23), 6 years' retail experience, desires position with reputable firm as representative for Northern Ireland, or would consider England. Salary, commission and expenses. Commence September. Box 4/340.

GENTLEMAN with first-class connection among chemists, stores and hairdressers in London and Home Counties, seeks representation with firm of note. Car owner. Box 4/342.

PHARMACEUTICAL REPRESENTATIVE, London and Home Counties connection, available shortly. Own car; must be firm of repute. King, 114 Beverley Drive, Edgware, Middx.

REPRESENTATIVE with live connection calling upon chemists and hairdressers, wishes to carry additional lines. Hants, Surrey, Sussex, Kent. Box 4/360.

REPRESENTATIVE with over 25 years' experience, over 40, with proven record of successful selling to retail and wholesale chemists, stores and Co-ops, seeks an appointment with firm of repute who would not reduce commission after working up successful sales. Territories: Lincs, Norfolk, Suffolk, Notts, Cambs, Oxon, Berks, Bucks, Beds, Northants, Herts, Essex, Surrey. Terms: Substantial salary, commission and expenses, in return for skilful conscientious service. Box 4/337.

SALES MANAGER with wide experience in marketing cosmetics, proprietary medicinal products, etc., in home and export markets. Box 4/333.

SALES MANAGER, able organiser, with wide experience administration in all phases market research, advertising staff control, etc. At present with London national company doing substantial turnover with chemists. Man of ideas specially suited to firm with progressive policy. Box 4/284.

TABLET MAKER. Experienced granulator, used to single punch and rotary machines, seeks permanent situation in or near N.W. London. Box 4/320.

WHOLESALE (OVERSEAS)

M.P.S., WORKS MANAGER seeks post in Australia. Several years' general management experience particularly in fanufacture of proprietary type lines. Excellent practical and engineering background. Married; wife Australian. Free early 1949. N.S.W. preferred, but not essential. Box 4/330.

LOCUMS SEEKING ENGAGEMENTS

DISPENSER-SECRETARY. Hospital doctor's dispensing "locums" (BRITISH ISLES) or Eire. Kathleen Roynon, 112 Maryland Rd., London, N.22. Bow 1320.

APPOINTMENTS

NATIONAL HEALTH SERVICE

JOINT PRICING COMMITTEE FOR ENGLAND.

Applications are invited for the position of CLERK of the newly-formed JOINT PRICING COMMITTEE FOR ENGLAND. The Committee is responsible for the pricing of all National Health Service prescriptions dispensed by pharmacists in England. This work is carried out in thirteen Centres throughout the country, with a total staff of between six and seven hundred. The central office of the Committee will probably be in London. Applicants, who should be not more than 50 years of age, should have outstanding administrative ability, and be accustomed to the control of staffs. The annual salary will be £900 rising by annual increments of £30 to a maximum of £1,140, and the person appointed will be required to contribute to the National Health Service Superannuation Scheme.

Applications stating age, qualifications, and experience, together with copies of two recent testimonials, should reach the undersigned not later than August 31, 1948.

JOS. A. SPEED.
Secretary, pro te

42 West Cliff,
Preston, Lancs.

PARK PREWETT HOSPITAL, BASINGSTOKE

ASSISTANT DISPENSER required. Salar and conditions of service in accordance with scales of Joint Negotiating Committee (Hospital Staffs). The appointment will be subjec to the National Health Service (Superannuation) Regulations, 1947. Applications accompanied by copies of three testimonials to reach The Secretary not later than 26th August 1948.-

QUEEN MARY'S HOSPITAL FOR THE EAST END

Stratford, London, E.15

ASSISTANT PHARMACIST

Applications are invited from Registered Pharmacists for this appointment. Salary Scal £370 per annum with annual increases of £1 up to £450 per annum. Commencing salar within scale according to qualifications an experience. Applications, giving full particu lars of age, qualifications and experience, to gether with copies of recent testimonial should be sent as soon as possible to th undersigned.

J. S. STREET,
Deputy House Governo

KINGSTON HOSPITAL

WALVERTON AVENUE,
KINGSTON-ON-THAMES
(500 Beds)

APPOINTMENT OF HEAD PHARMACIS

Applications are invited from well-qualifie Pharmacists for the above post. Permane appointment vacant on October 1, 194 Salary scale £575 x £20—£675 p.a. inclusiv Commencing salary according to qualificatio and experience.

Applications by letter stating age and qualifications, and giving full details of experienc with the names of three referees and/or copi of testimonials, should be sent to the Medic Superintendent at the Hospital.

NORTHALLERTON HOSPITALS MANAGEMENT COMMITTEE

plications are invited from suitably quali- persons for the post of Pharmacist (single ed) for the hospitals in the above group. salary and conditions of service will be in dance with the recommendations of the Negotiating Committee for Hospital .

plications, stating age, qualifications and rience, accompanied by copies of two re- testimonials to be sent to the undersigned ot later than Saturday, September 4th,

J. B. M. PETERS,
Acting Secretary.

ty Hall,
Northallerton,
July, 1948.

OORFIELDS WESTMINSTER AND CENTRAL EYE HOSPITAL, MOORFIELDS BRANCH

CITY ROAD, LONDON, E.C.1.

ications are invited for the position of IOR ASSISTANT PHARMACIST. Salary cordance with the J.N.C. (Hospital Staffs). £415, rising by five annual increments £15 to £490. Commencing salary within scale according to experience and qualifica- . Hours 8.30 a.m. to 4.30 p.m. Satur- 1.0 p.m. Applications, together with s of testimonials should be sent to the f Pharmacist.

REDHILL COUNTY HOSPITAL

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